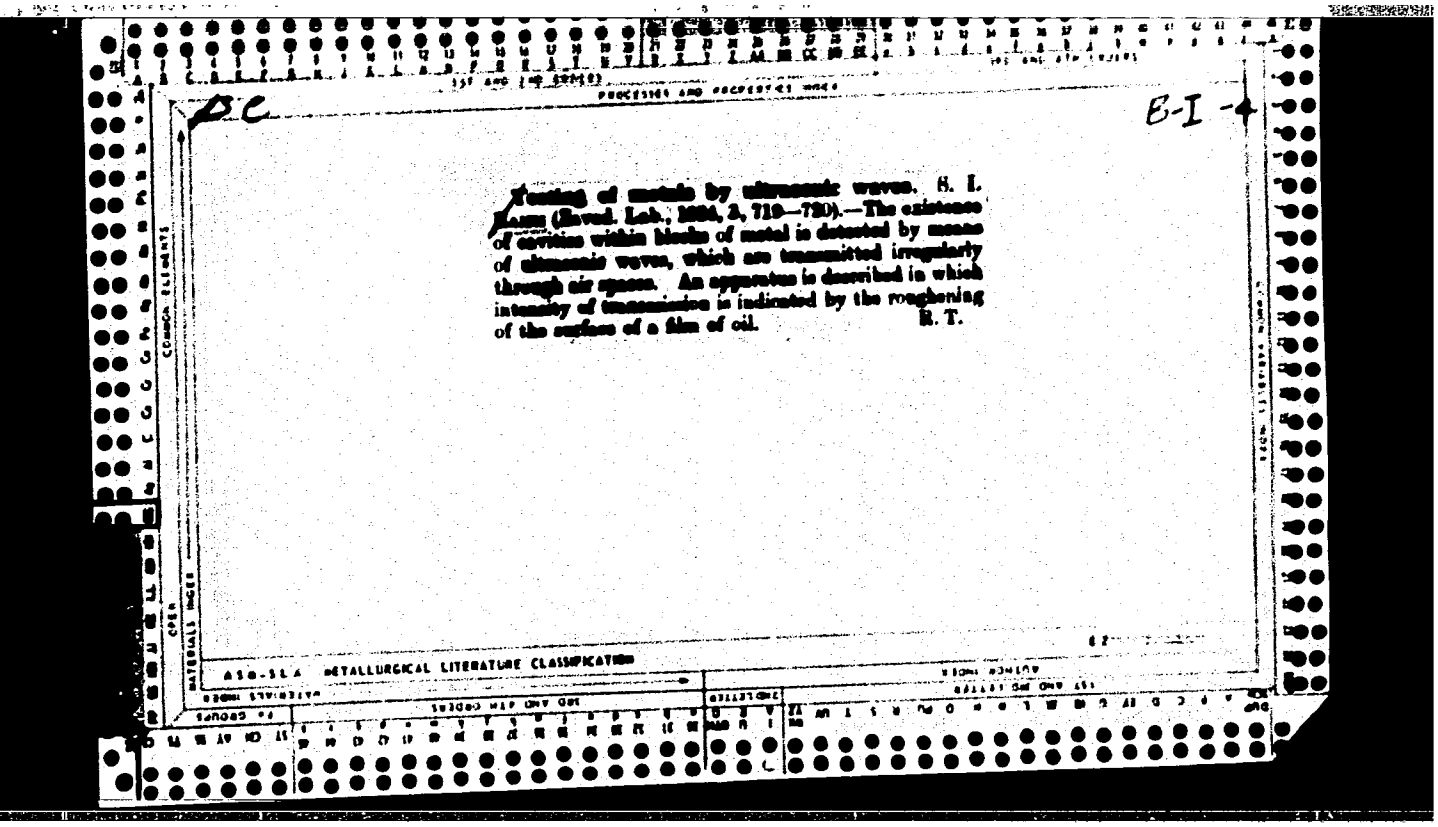
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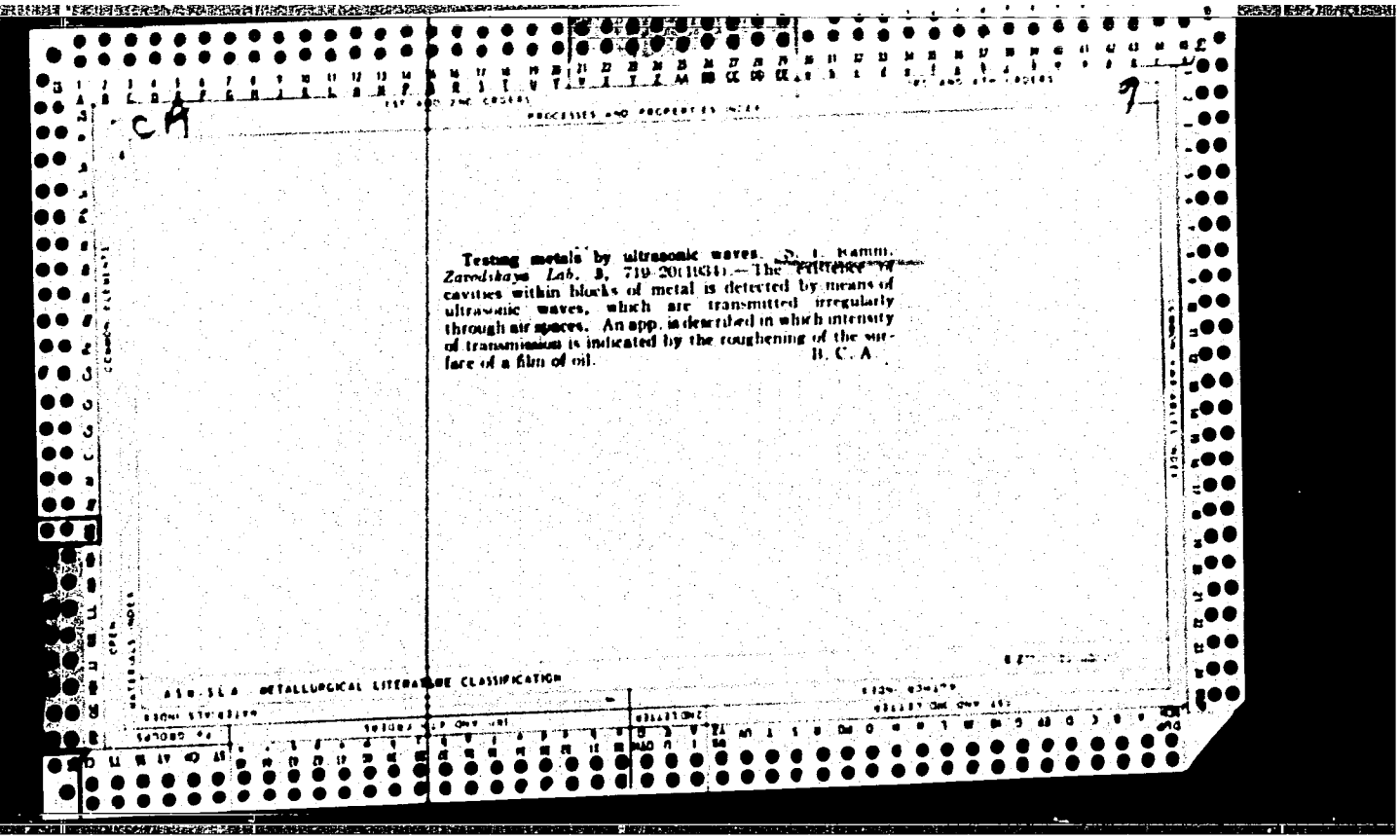
B-I -4

Testing of metals by ultrasonic waves. S. I. Sokolov (Zhurn. Lab., 1934, 3, 719—720).—The existence of cavities within blocks of metal is detected by means of ultrasonic waves, which are transmitted irregularly through air spaces. An apparatus is described in which intensity of transmission is indicated by the roughening of the surface of a film of oil. R. T.

A 30-51 A METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



Testing metals by ultrasonic waves. S. I. Kamin. *Zavodskaya Lab.* 3, 719-20(1934).—The presence of cavities within blocks of metal is detected by means of ultrasonic waves, which are transmitted irregularly through air spaces. An app. is described in which intensity of transmission is indicated by the roughening of the surface of a film of oil. B. C. A.

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6A

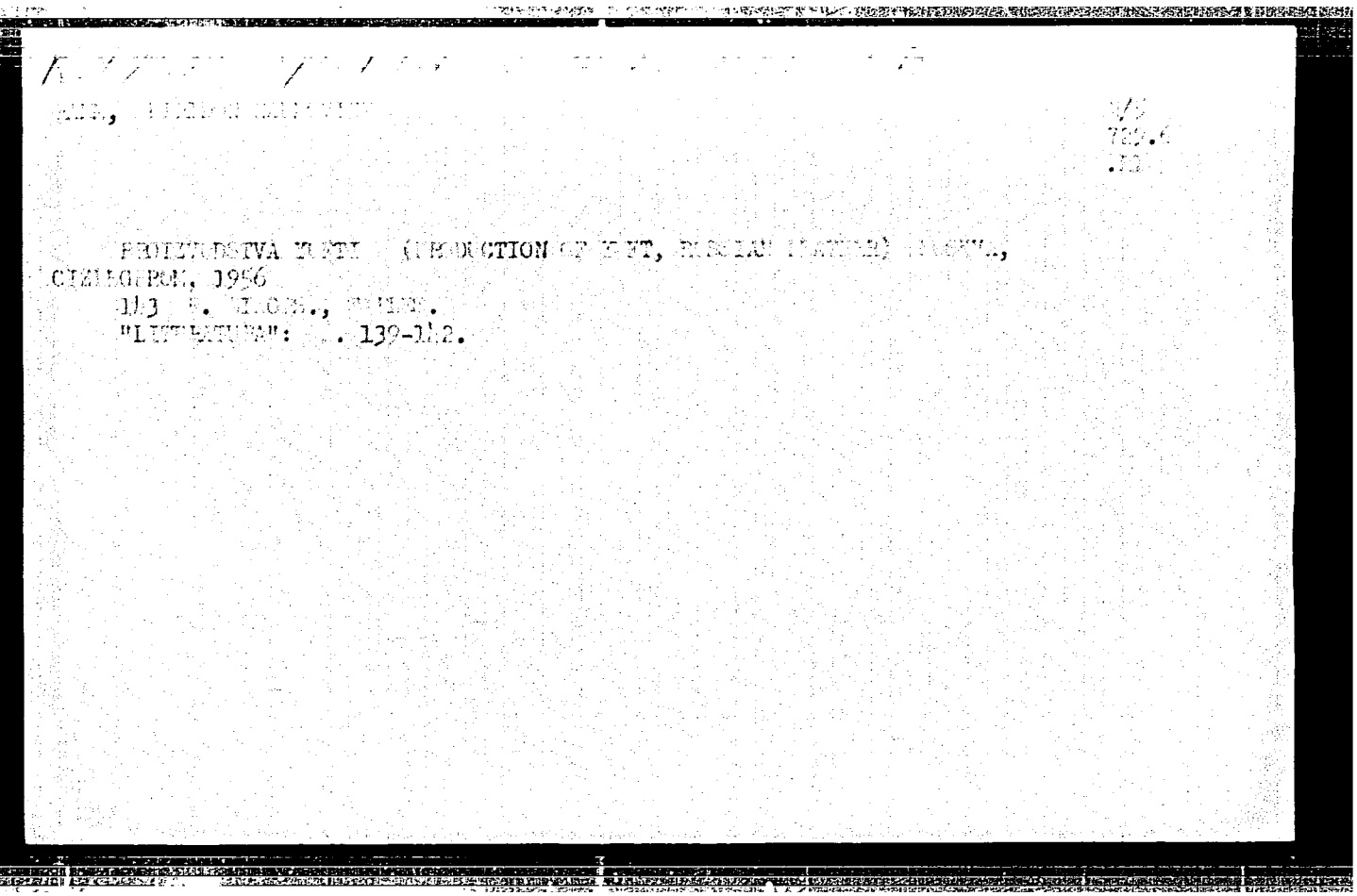
29

Improved method of making chrome-vegetable-tanned thermostable Russian leather. S. N. Ramm. *Legkaya Prom.* 10, No. 12, 31-2(1950). In making Russian leather suitable for hot vulcanization, a second chroming followed the vegetable or sulfite cellulose retanning, with a boiling temp. not lower than 105°. Second chroming was employed to offset the chrome stripping during the vegetable and sulfite cellulose tanning. Extensive expts. have shown that dechroming can be eliminated by maintaining the following conditions of vegetable tanning: high concn. of tannins (75 g./l.), high pH (4.8-5.0 initially), and neutralization of pelt to same pH. The tannin no. of the leather was about 40, compared with 20-32 by the old method (second chroming). Addn. of mineral-oil emulsion to greasing mixt. resulted in better distribution of grease in depth of leather and made possible reduction of grease from 8-13% (old method) to 6-8%. Mineral oil did not decrease the strength of bond between leather and rubber in hot vulcanization.

B. Z. Kanuch

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMM, Spirdon Naumovich; VAYSBERG, I.Ye., kandidat tekhnicheskikh nauk, retsenzent; MASLOV, I.G., redaktor; POPOVA, T.G., tekhnicheskiy redaktor

[Production of Russia leather] Proizvodstvo iufti. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva legkoi promyshl. SSSR, 1956. 143 p. (MLRA 10:4)
(Leather industry)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMM, Spiridon Naumovich, dots.; LILICH, Galina Alekseyevna, kand. filol. nauk; MOGILEVSKIY, Lev Davydovich, inzh.; SMUL'SKAYA, T.K., red.; PLAKSHE, L.Yu., tekhn. red.

[Czech-Russian leather and shoe dictionary]Cheshsko-russkii kochevenno-obuvnoi slovar'. Moskva, Glav. red. inostr. nauchno-tekhn. slovarei Fizmatgiza, 1962. 135 p. (MIRA 16:3)
(Czech language--Dictionaries--Russian)
(Leather--Dictionaries) (Boots and shoes--Dictionaries)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMM,S.N.; SHELYAPINA,A.S.

A study of the heat resistance of insole leather. Leg.prom. 15 no.6:36-41 Je '55. (MLRA 8:8)
(Leather)

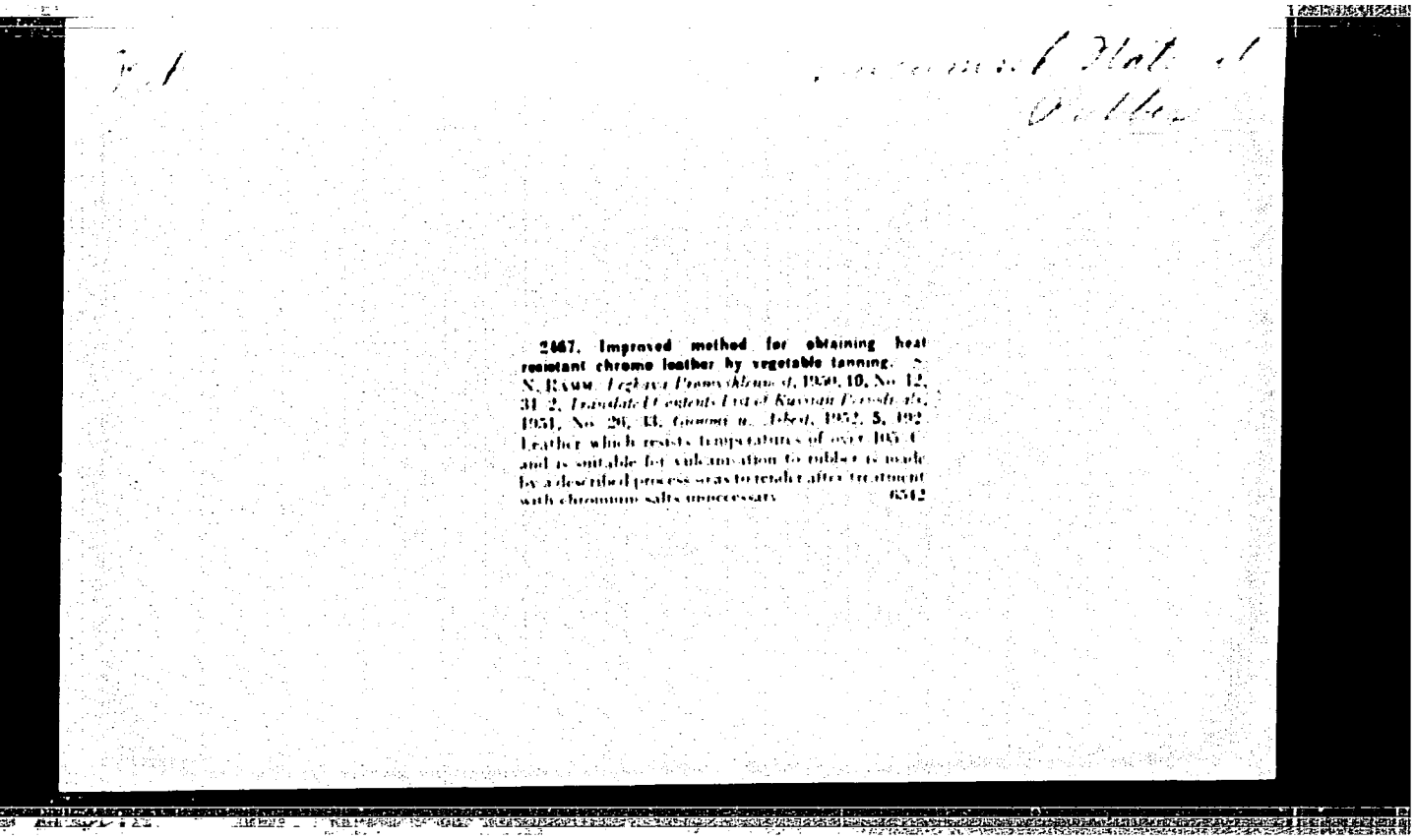
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAIM, S. N.
N. V. BELOV, Russ. 37,243, June 30, 1934

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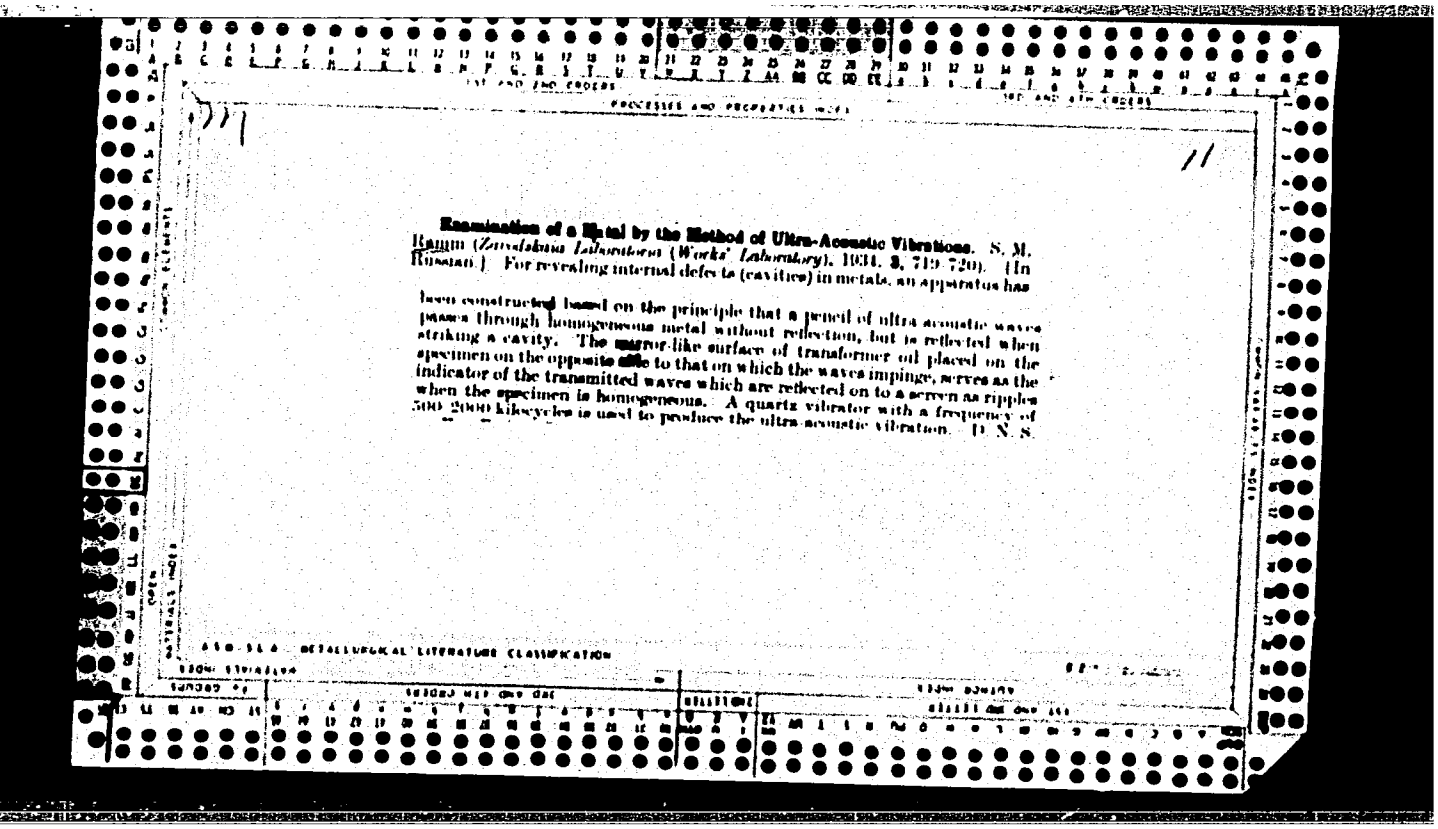
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2467. Improved method for obtaining heat resistant chrome leather by vegetable tanning. [illegible] N. Raum. *Legkaya Promyshlennost*, 1950, 10, No. 12, 31-2. *Translation Division Foreign Technology Div.*, 1951, No. 26, 13. *Chemical Abstracts*, 1952, 5, 192. Leather which resists temperatures of over 105° C and is suitable for vulcanization to rubber is made by a described process as to result after treatment with chromium salts unnecessary. 6542

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Examination of a Metal by the Method of Ultra-Acoustic Vibrations. S. M. Rapin (*Zavodskaia Laboratoria* (*Works' Laboratory*), 1934, **3**, 719–720). (In Russian.) For revealing internal defects (cavities) in metals, an apparatus has been constructed based on the principle that a pencil of ultra acoustic waves passes through homogeneous metal without reflection, but is reflected when striking a cavity. The mirror-like surface of transformer oil placed on the specimen on the opposite side to that on which the waves impinge, serves as the indicator of the transmitted waves which are reflected on to a screen as ripples when the specimen is homogeneous. A quartz vibrator with a frequency of 500–2000 kilocycles is used to produce the ultra-acoustic vibration. D. N. S.

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RA[illegible], V.M.; SOKOV, Ye.I.; AKSEL'ROD, Yu.V.; GUSEVA, N[illegible];
Prinimali uchastiye: VASIL'YEV, B.T., kand.; [illegible]OVA, T.G.

Absorption of sulfuric anhydride in the contact process manufacture of sulfuric acid in bubble columns with sieve and tubular plates. Trudy MKHTI no.35:140-146 '61.
(MIRA 14:10)

(Sulfuric acid)
(Plate towers)

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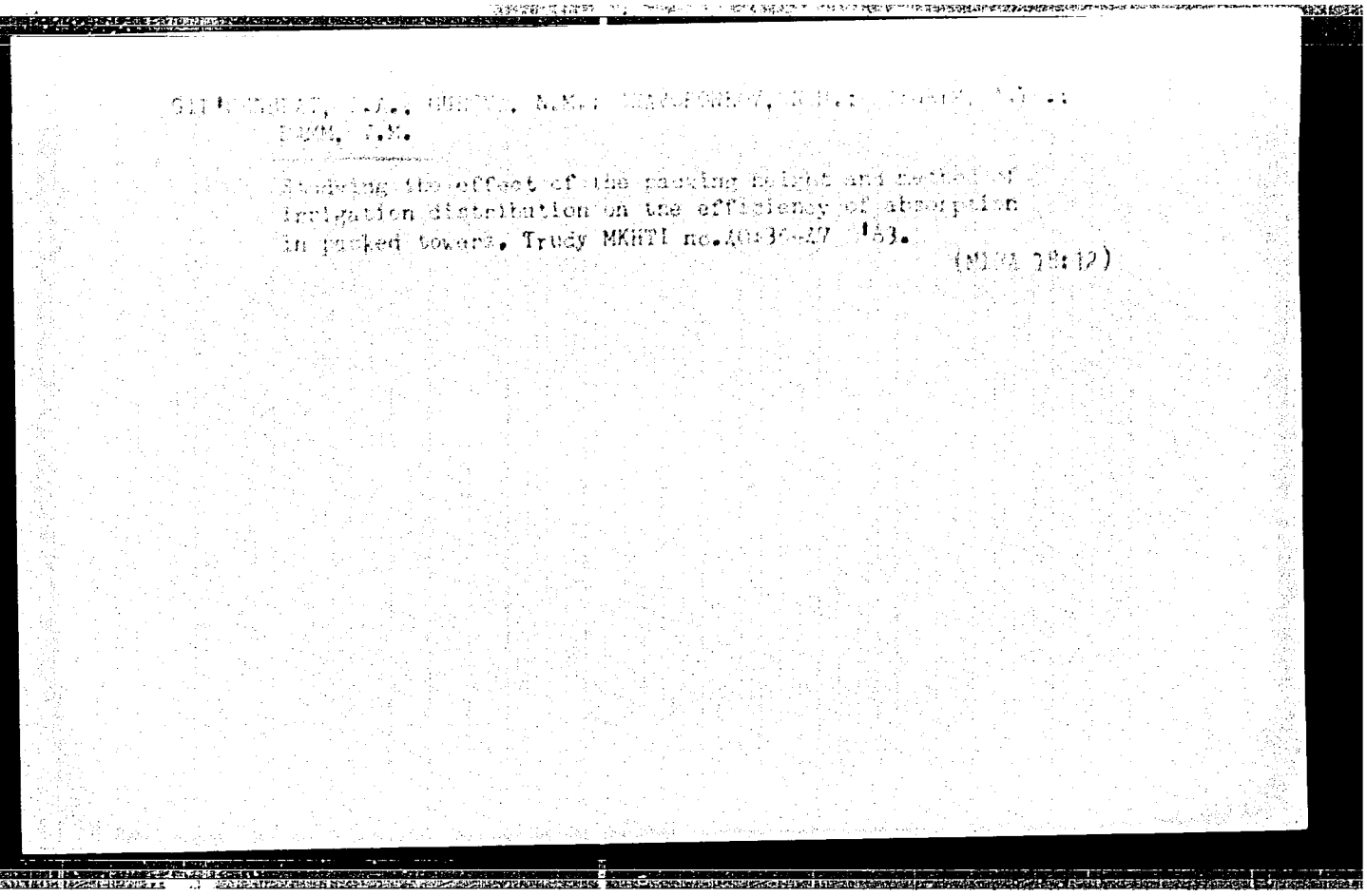
[redacted], V.M.; GIL'DENBLAT, I.A.; RAMM, V.M.

Effective phase contact surface in packed absorption towers. Trudy MKHTI no.40:5-18 '63.

Studying the effective phase contact surface in the absorption of readily soluble gases in packed towers. Ibid.:19-34 (MIRA 18:12)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



[illegible], L.L., [illegible], A.M.; [illegible], I.E.; [illegible], V.I.
[illegible], I.M.

Studying the effect of the packing height and method of irrigation distribution on the efficiency of absorption in packed towers. Trudy MKHTI no.[illegible] '63.
(MIRA 18:12)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

CHERTKOV, B.A.; RAMM, V.M.; DOBROMYSLOVA, N.S.

Absorption of sulfur trioxide by oleum. Zhur. prikl. khim, 38 no. 10:2330-2332 O '65. (MIRA 18:12)

1. Submitted August 5, 1963.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

AKSEL'ROD, Yu.V.; RAMM, V.M.; BURKOV, Ye.I.

Hydrodynamics of the SO_3 - H_2SO_4 bubble system. Trudy MKHTI no.40:78-85 '63. (MIRA 18:12)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

MATROZOV, V.I.; RAMM, V.M.; CHAGINA, Z.V.

Study of high speed uniflow atomization apparatus during the absorption of readily soluble gases. Khim. prom. 41 no.2:46-53 F '65. (MIRA 18:4)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAZIN, V.M.; CHAGIYA, Z.V.

Studying mass transfer in the liquid phase during gas absorption in packed towers. Khim. prom. 41 no. 12:910-912 D '65 (MIRA 19:1)

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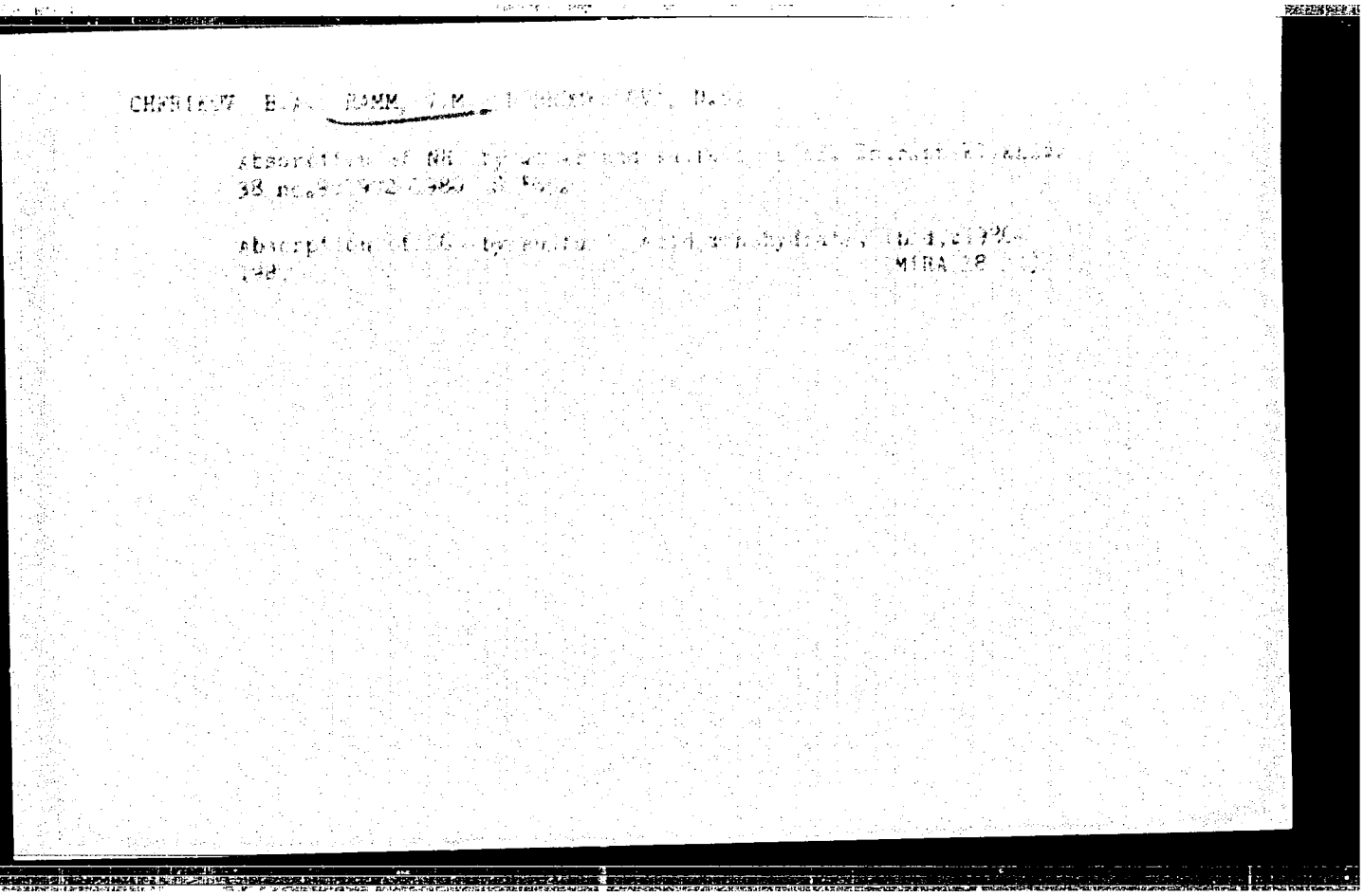
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

GIL'DENBLAT, I.A.; GUROVA, N.M.; PAMI, V.M.

Studying the effect of the initial distribution of the reflux liquid and height of the packed layer on the efficiency of the absorption in columns with ring packings of various dimensions. Trudy MKHTI no.47:11-29 '64. (MIRA 18:9)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMM, V.M.; ZAKGEYM, A.Yu.

Reply to the remarks of V.V. Kafarov on the article "Concerning a theory of mass transfer." Zhur. prikl. khim. 36 no.10: 2318-2320 O '63. (MIRA 17:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ZHUZHIKOV, Viktor Aleksandrovich; RAMM, V.M., red.; SHPAK, Ye.G., tekhn. red.

[Filtration; theory and practice of the separation of suspensions] Fil'trovanie; teoriia i praktika razdeleniia suspenzii. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1961. 303 p. (MIRA 14:9)

(Filters and filtration) (Suspensions (Chemistry))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

GIL'DENBLAT, I.A.; GUROVA, N.M.; ZHAVORONKOV, N.M.; ZANGEIM, A.Yu.; RAMM, V.M.

Effect of the height of packing layer and of the method of reflux distribution on the effectiveness of absorption in packed columns. Khim. prom. no.5:362-366 My '63. (MIRA 16:8)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

AKSEL'RUD, Yu.V.; PAZ'M, V.M.; SUPRUV, Ye.I.

Equilibrium pressure of sulfuric anhydride vapors over oleum.
Zhur. prikl. khim. 37 no.6:1199-1204 Je '64. (MIRA 18:3)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMM, V.M.; ZAKGEYM, A.Yu.

On a theory of mass transfer. Zhur. prikl. khim. 36 no.9: 2088-2091 D '63. (MIRA 17:1)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

AKSEL'ROD, Yu.V.; VASIL'YEV, B.T.; GUROVA, N.M.; RAMM, V.M.; SURKOV, Ye.I.; TSURIKOV, S.A.

Absorption of sulfuric anhydride in bubble towers with the yield of oleum. Khim.prom. no.1:39 Ja '64. (MIRA 17:2)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMM, V.M.; AKSEL'ROD, Yu.V.

Intensity of heat transmission through a tube wall on sieve and tubular trays. Khim. prom. no.5:367-371 My '64.
(MIRA 17:9)

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V.M. Ramm

Protsessy i apparaty khimicheskoy tekhnologii, (by) A.N. Planovskiy, V.M. Ramm (1) S.Z. Kagan. Izd.2., dop i perer. Moskva, Goskhimizdat, 1962.

847 p. illus., diagrs., tables.

Bibliography: p. (828)-831.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

PLANOVSKIY, Aleksandr Nikolayevich; RAMM, Vitaliy Maksimovich; KAGAN, Solomon Zakharovich; AVR''DVA, N.S., red.; RATMANSKIY, M.N., red.; KOGAN, V.V., tekhn. red.

[Unit operations and equipment of chemical engineering]Protsessy i apparaty khimicheskoi tekhnologii. Izd.2., dop. i perer. Moskva, Goskhimizdat, 1962. 847 p. (MIRA 16:3)
(Chemical engineering--Equipment and supplies)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMM, V.M., kand.tekhn.nauk; ZAKGEYM, A.Yu., inzh.

Investigation of the absorption of readily soluble gases on regular packings. Khim.mash. no.6:9-14 N-D '60. (MIRA 13:11)
(Absorption) (Packings (Mechanical engineering))

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ZHAVORONKOV, N.M.; GIL'DENBLAT, I.A., inzh.; RAMM, V.M., kand.tekhn.nauk

Amount of liquid retained by packings in absorption columns.
Khim.mash. no.5:13-16 S-O '60. (MIRA 13:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Zhavoronkov).
(Packed towers)

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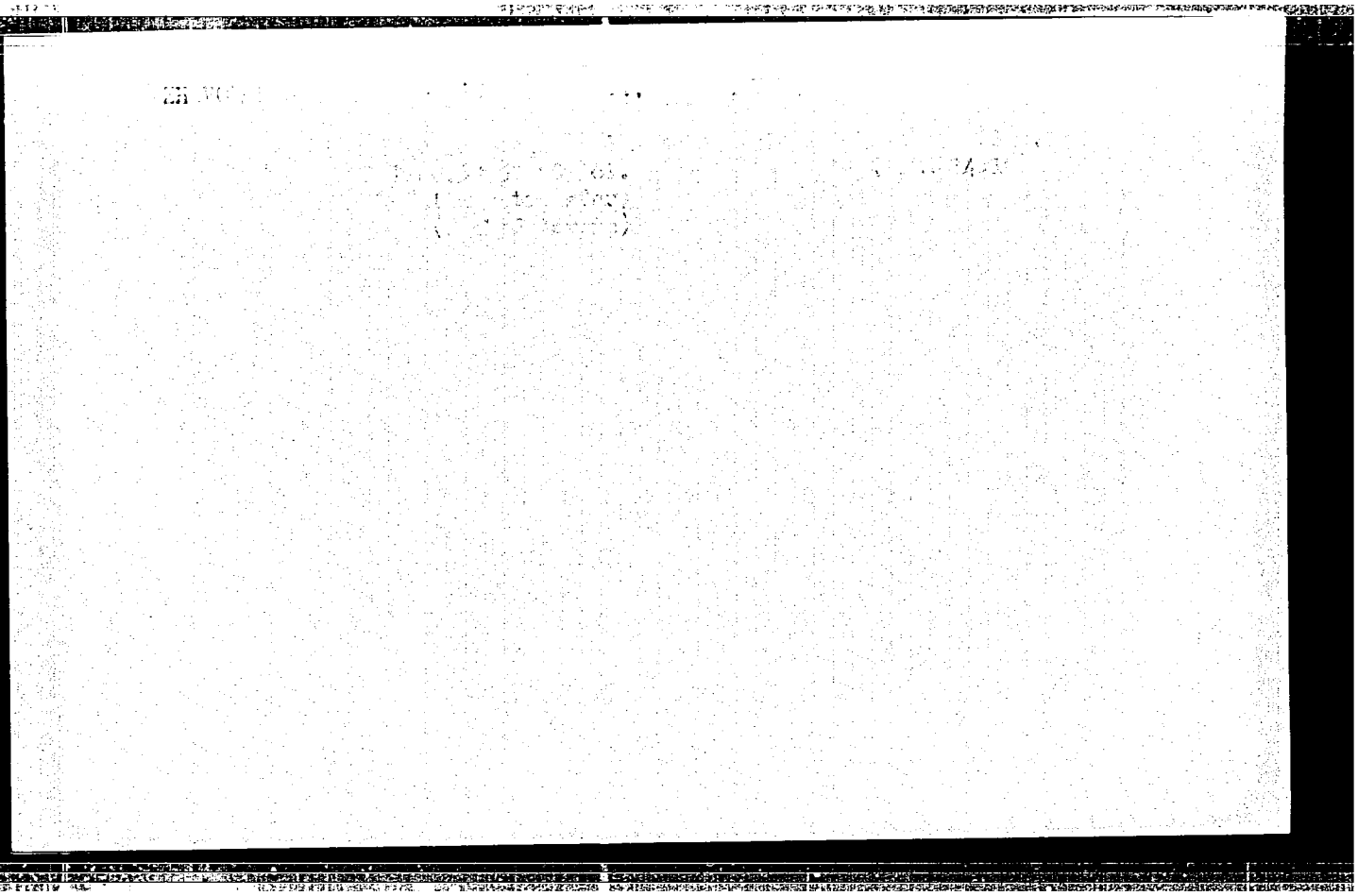
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ZHAVORONKOV, N.M.; GIL'DENBLAT, I.A.; RAMM, V.M.

Study of mass transfer to a single-phase gaseous stream in packed columns. Zhur. prikl. khim. 33 no.8:1790-1800 Ag '60. (MIRA 13:9)
(Packed towers) (Mass transfer)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ZHAVORONKOV, N.M.; RAMM, V.M., kand.tekhn.nauk; GIL'DEBLAT, I.A., inzh.; ZAKGEYM, A.Yu., inzh.

Relationship between the number of irrigating streams and the effectiveness of absorption in packed towers. Khim.mash. no.1: 21-24 Ja '60. (MIRA 13:5)

1. Chlen-korrespondent AN SSSR (for Zhavoronkov).
(Packed towers)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

AUTHORS: Ramm, V.M., Candidate of Technical Sciences, Zangeym, A.Yu.

TITLE: Theory and Technique of Absorption (Teoriya i tekhnika absorbtsii)

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1958, Vol III, Nr 6, pp 715-724 (USSR)

ABSTRACT: The absorption of gases has been for more than 100 years by the chemical industry, but several important problems are yet to be investigated. The principal works of the last 4 - 5 years are discussed here. Levich [Ref. 6] has developed a film theory which states that a film forms at the interface of the phases. The formation of the film could not be proved, however. The theory of non-stationary diffusion [Ref. 8] assumes that fresh liquid moves to the interface and removes liquid which has already interacted with the gas. If there is a chemical interaction between the liquid and the gas the speed of absorption increases. The equation derived has been experimentally tested by the absorption of CO_2 in a NaOH solution. Absorption apparatuses may be divided into surface, bubbling and spraying types. Surface absorbers are mostly columns with inserts the efficiency of which

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depends on the gas speed and on a low hydraulic resistance. Rings which serve as inserts (Figure 1) should have large size, a low height and a low surface tension (Figure 2). Bubbling absorbers are most efficient under foaming conditions. The height of the foam layer increases at gas speeds from 0.7 to 1.2 m/sec. At higher values it decreases again. The absorption of SO_3 in the production of sulfuric acid by the contact method has been tested in an apparatus of 2,500 x 2,500 mm. The degree of absorption was 99.2 - 99.7%, the resistance of the apparatus 290 - 350 mm of water column, the heat transmission to the cooling water 800 - 1,000 kcal/m^2 · h · °C. Spraying absorbers are towers with nozzles for the spraying of the liquids. They are used in the absorption of fluorine, in the production of sulfuric acid, etc. The operating condition of these devices is very irregular, especially, if the gas speed is low. It is recommended to equalize the gas flow by a grid or a diffuser. Many absorption processes are studied on models, but the

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methods of modeling are not yet fully developed.
There are 4 diagrams, 3 graphs, and 100 references, 52 of which are Soviet, 33 English, 13 American, 1 Canadian, and 1 French.

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[redacted], V. M.

[redacted], V. M. -- "Microbiological Processes in the Chemical Industry." Sub 11 Jun 52, Sci Inst of Fertilizers and Insectofungicides Ministry of Chemical Industry USSR. (Dissertation for the degree of Candidate in Technical Sciences)

SO: Vechernyaya Moskva, January-December 1952

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMM, V.M., kand.tekhn.nauk; ZAKHYM, A.Yu.

Theory and equipment of absorption. Khim.nauka i prom. 3 no.6: 715-724 '58. (MIRA 12:2)

(Absorption)

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RAM', V. M.

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PLANOVSKIY, ALEKSANDR NIKOLAYEVICH PROTSESSY I APPARATY KHIMICHESKOY TEKHNOLOGII (PROCESSES AND APPARATUS OF THE CHEMICAL INDUSTRY, BY) A. N. PLANOVSKIY, V. M. RAMM (1) [illegible] 19[illegible].

[illegible] P. [illegible], [illegible], [illegible].

[illegible]

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ZHAVORONKOV, N.M.; PALM, V.M.; GIL'DENBLAT, I.A.; ZAKGEYM, A.Yu.

Effect of the initial distribution of irrigating liquid on the efficiency of absorption on packed columns. Trudy [illegible]NIITI no.33:84-91 '61. (MIRA 14:10)

(Packed towers)
(Absorption)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

AKSEL'ROD, Yu.V.; SURKOV, Ye.I.; RA[illegible], V.[illegible].

Investigation of hydrodynamics and mass transfer in the system sulfurtrioxide - sulfuric acid under the conditions of bubbling on a turbogrid-type sieve tray. Trudy MKHTI no.33:33-42 '61. (MIRA 14:10)

(Mass transfer)
(Plate towers)
(Sulfuric acid)

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AKSEL'ROD, Yu.V.; SURKOV, Ye.I.; RAY, V.I.

Investigation of hydrodynamics and mass transfer in the system sulfurtrioxide - sulfuric acid under the conditions of bubbling on a turbogrid-type sieve tray. Trudy MIHTI no.33:33-42 '61. (MIRA 14:10)

(Mass transfer)
(Plate towers)
(Sulfuric acid)

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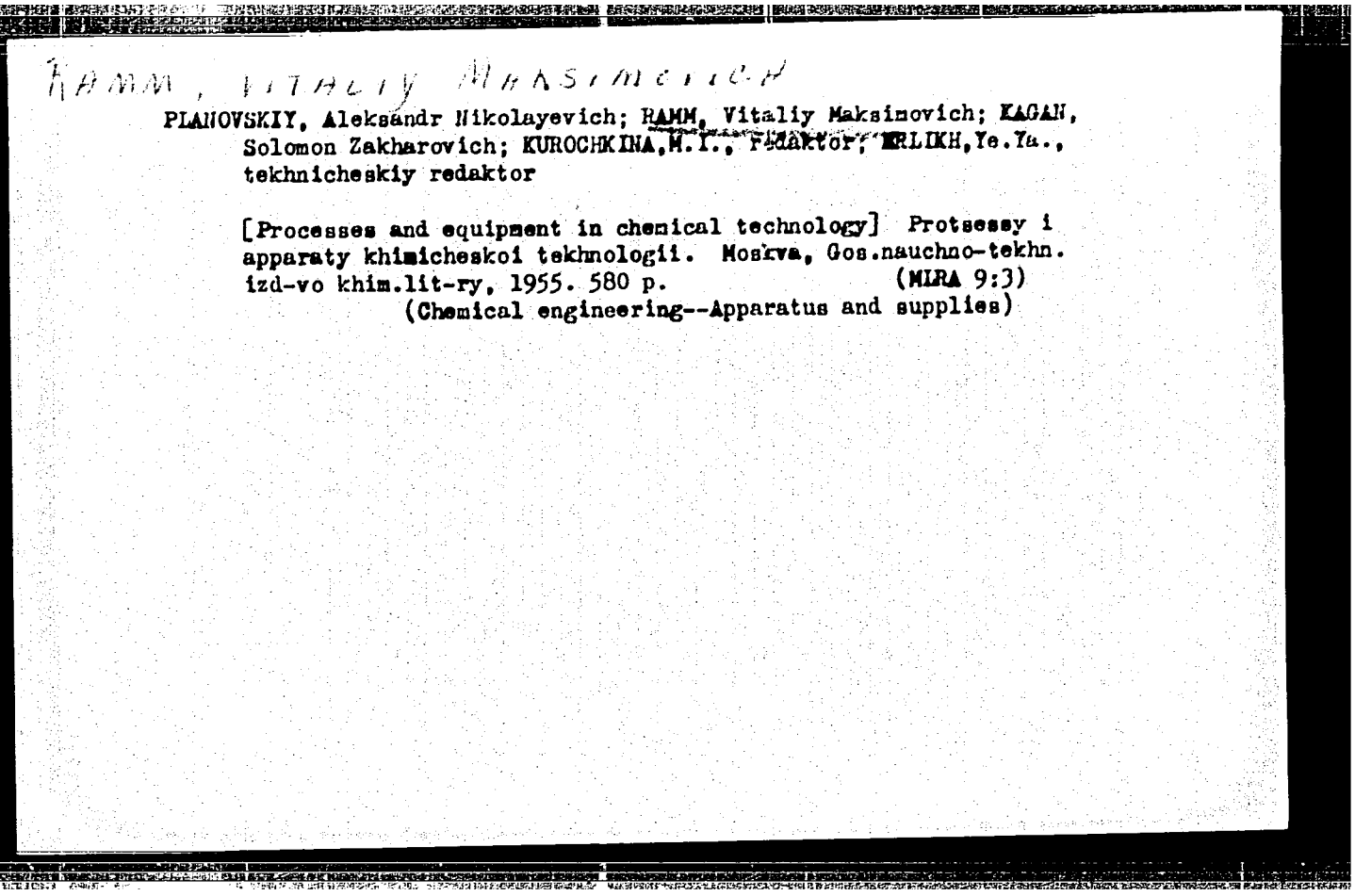
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ZHAVORONKOV, N.M.; GIL'DENBLAT, I.A.; RAT[illegible], V.M.; BOVVEN, V.S.

Liquid holdup in the packing of absorption columns. Trudy MKHTI no.33:75-83 '61. (MIRA 14:10)
(Packed towers)

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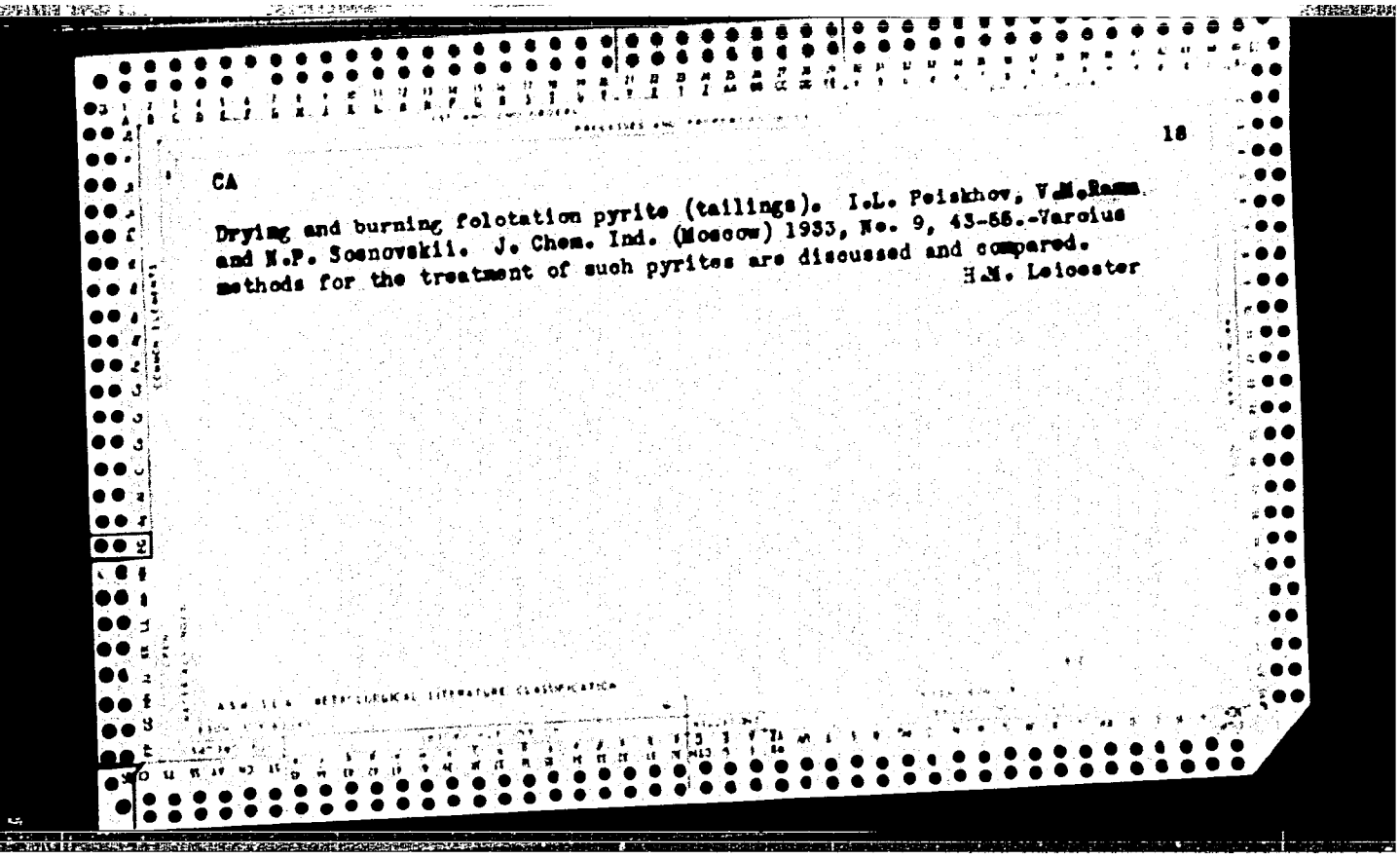
HAMM, Vitaliy Maksimovich

PLANOVSKIY, Aleksandr Nikolayevich; HAMM, Vitaliy Maksimovich; KAGAN, Solomon Zakharovich; KUROCHKINA, M.I., redaktor; ERLIKH, Ye.Ya., tekhnicheskiy redaktor

[Processes and equipment in chemical technology] Protsessy i apparaty khimicheskoi tekhnologii. Moskva, Gos.nauchno-tekhn. izd-vo khim.lit-ry, 1955. 580 p. (MLRA 9:3)
(Chemical engineering--Apparatus and supplies)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

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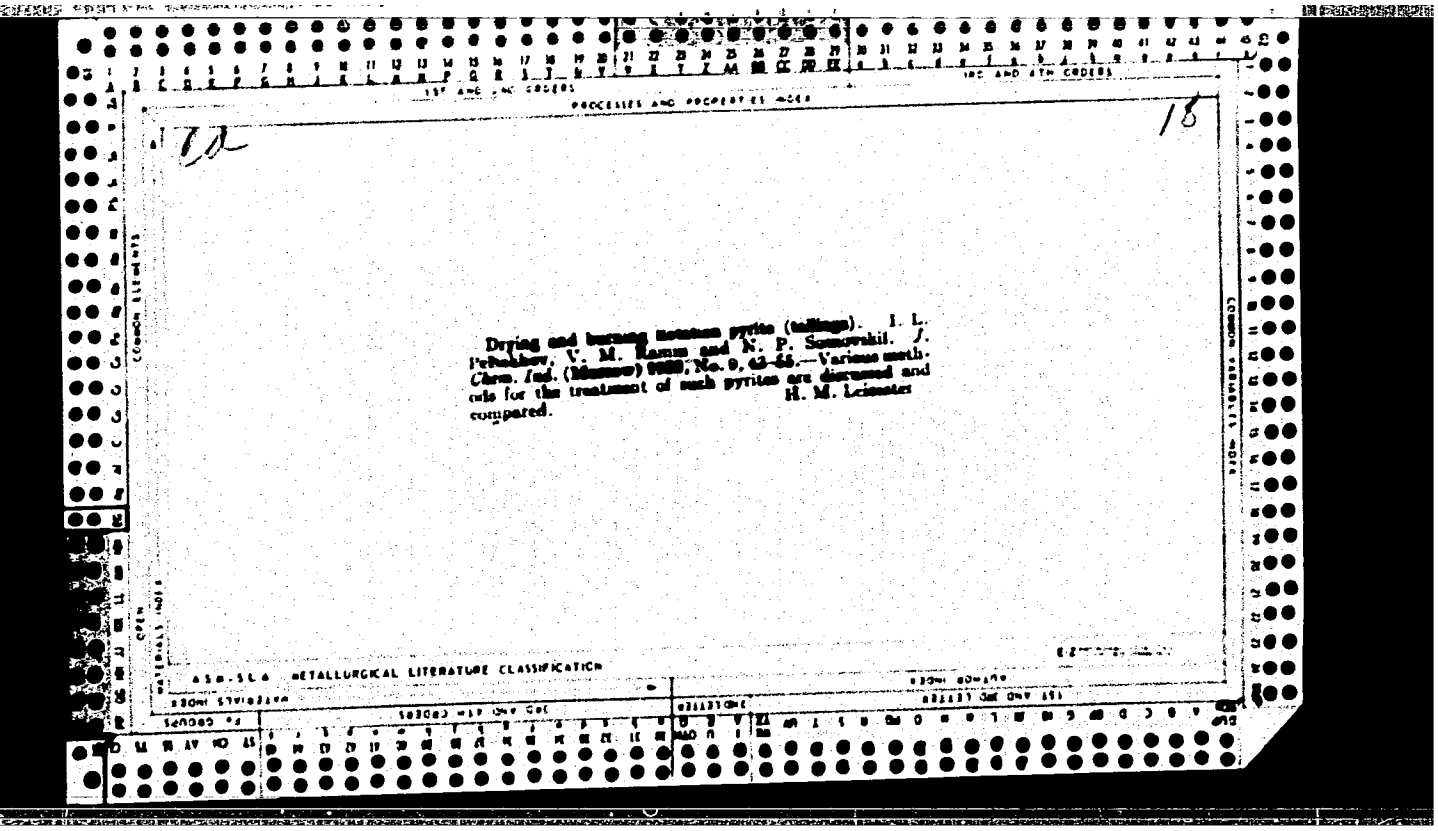
18

CA

Drying and burning flotation pyrite (tailings). I.L. Poiskhov, V.M.Ramm and N.P. Sosnovskii. J. Chem. Ind. (Moscow) 1933, No. 9, 43-55.--Various methods for the treatment of such pyrites are discussed and compared.
H.M. Leicester

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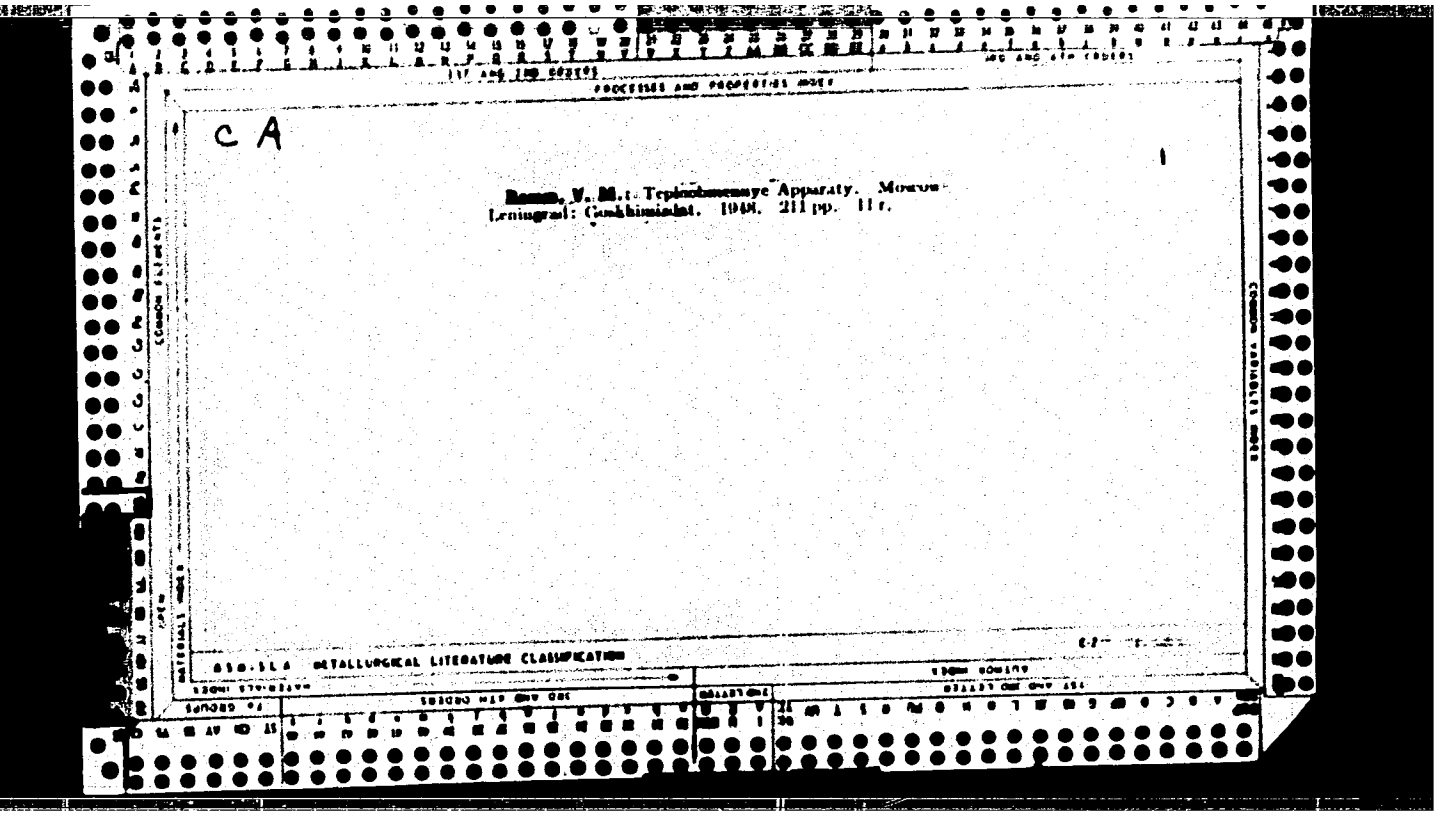
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



Drying and burning uranium pyrite (tailings). I. L. Pekshikov, V. M. Ramm and N. P. Sazonovskii. *J. Chem. Ind.* (Moscow) 9[58], No. 9, 63-66.—Various methods for the treatment of such pyrites are discussed and compared. H. M. Leicester

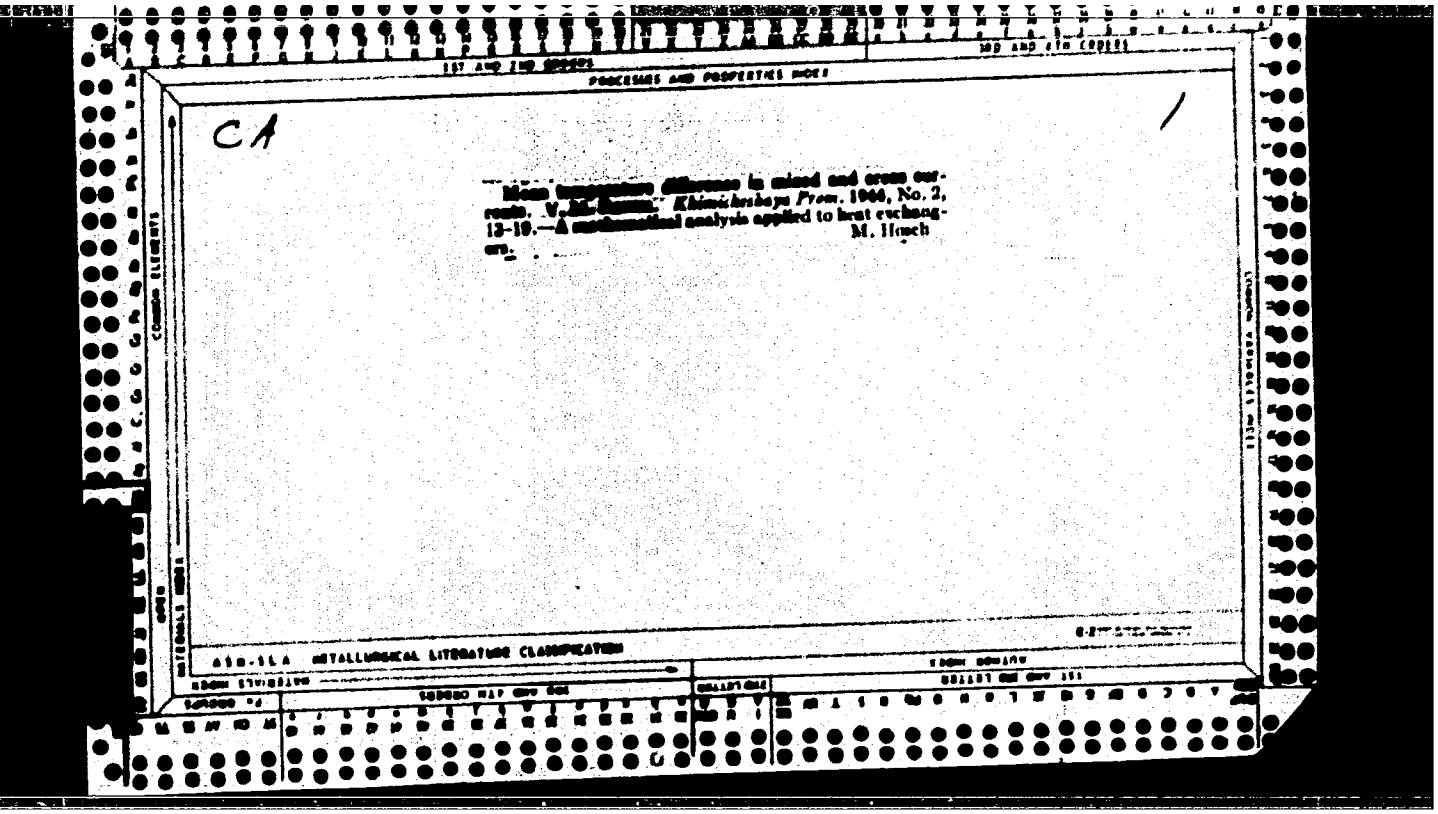
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



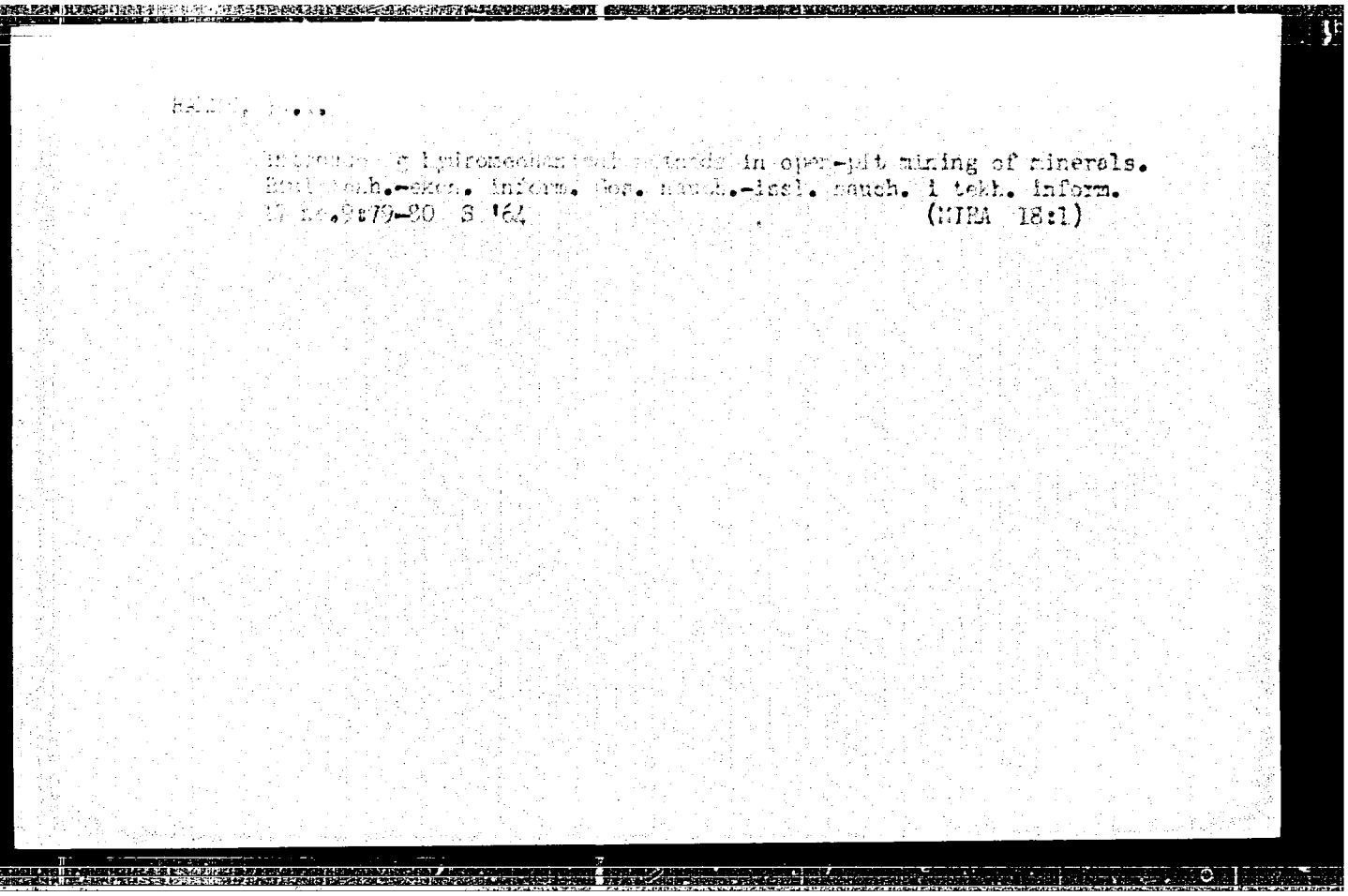
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



[illegible] ...

[illegible] of pirometallurgical methods in open-pit mining of minerals. Sbor. nauch.-tekh. inform. Gos. nauch.-issl. rudnich. i tekh. inform. [illegible] 1962. 3 p. (MIRA 18:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMME, Yu.V.

Activity of the Scientific Council of the Coal Mining Industry. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 17 no.12:51-52 D '64. (MIRA 18:3)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMMEL'MEYYER, Ye.S.

Mollusks from the Mezozoic lake deposits of the Kara-Tau Range.
Trudy Paleont. inst. 15 no.1:99-101 '48. (MLRA 10:7)
(Kara-Tau--Gastropoda, Fossil)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

LIKHAREV, I. M., RAMEL'NIKOV, A. S.

Gasteropoda

Land mollusks of the fauna of the U. S. S. R. Opr. po faune no. 43, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BYSTROV, I.I.

Kul'tura vinograda v Primorskom krae [Cultivation of grapes in the Maritime Territory]. Vladivostok, 1952. 40 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 2, May 1953

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

[redacted], S.

The rational utilization of inferior limits.

P. Zhl (STUDII SI [redacted] DE AGRONOMICA) (Bucuresti, Rumania) Vol. 7, No. 3, 1957

So: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5, 1958

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMMO, V.

The library is a promoter of technical knowledge. Prof.-tekh.obr. 11 no.2:32 '54. (MLRA 7:6)
(Technical libraries)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

S/058/62/000/008/049/134
A061/A101

AUTHORS: Nymm, U. Kh., Rammo, I. Kh.

TITLE: On the photodielectric effect in ZnS-Cu and ZnS·CdS-Cu phosphors

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 44, abstract 8V308 ("Tr. In-ta fiz. i astron. AN EstSSR", 1961, no. 15, 184 - 202; summary in English)

TEXT: The photoconductivity of powdery crystal phosphors is studied with the aid of the photodielectric effect. The question as to the causes of the latter is discussed. It is shown that, in ZnS·CdS-Cu phosphors, the said effect is due to photoconductivity. Results of the change of photoconductivity and luminescence in crystal phosphors under the action of infrared radiation are presented and discussed. There are 62 references.

[Abstracter's note: Complete translation]

Card 1/1

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

44379

24.3500
24.2600

S/613/62/000/018/009/013
E039/E120

AUTHORS: Nymm, U.Kh., and Rammo, I.Kh.

TITLE: The spectra of infrared quenching of photoconductivity and luminescence of ZnS·CdS-Cu phosphors

SOURCE: Akademiya nauk Estonskoy SSR. Institut fiziki i astronomii. Trudy. no.18. 1962. Issledovaniya po lyuminestsentsii. 107-122

TEXT: The effect of infrared quenching on the photoconductivity and luminescence of the mixed crystal phosphors ZnS·CdS-Cu is studied with the object of elucidating the effect of the content of basic material on the corresponding energy levels between which electron transitions occur. Phosphors are examined with the following CdS content: 45, 35, 25, 18, 8 and 0%. Photoconductivity is measured by the photodielectric effect. The spectra of infrared quenching of photoconductivity and luminescence are similar and are practically unaffected by the concentration of CdS in the mixed phosphor. The displacement of the quenching spectra with increasing concentration of CdS is $\sim 0.1 \times 10^{-2}$ eV/mole % CdS. Electron processes giving rise to infrared quenching

Card 1/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

The spectra of infrared quenching ... S/613/62/000/018/009/013
E039/E120

of photoconductivity and luminescence possess certain common stages which originate in centres whose nearest surroundings are largely unaltered by the substitution of one of the cations. Results from an earlier paper on infrared photo-response are considered to be due to transition of electrons from traps to the conduction band. It is shown that for phosphors of this type electron and hole traps may possess nearly equal energy depths but it is possible to distinguish the electronic processes related to corresponding centres in mixed crystals. There are 4 figures.

SUBMITTED: December 15, 1961

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

24380

S/613/62/000/018/010/013
E039/E120

24.3500
24.2600

AUTHORS: Nymm, U.Kh., and Rammo, I.Kh.

TITLE: Relaxation of photoconductivity and luminescence of ZnS·CdS-Cu phosphors

SOURCE: Akademiya nauk Estonskoy SSR. Institut fiziki i astronomii. Trudy. no.18. 1962. Issledovaniya po lyuminestsentsii. 123-142

TEXT: The authors investigated the rise curves of photoconductivity and luminescence of powdered phosphors ZnS·CdS-Cu with CdS contents of 35, 25, 18, 8 and 0%. Photoconductivity was studied by means of the photo-dielectric effect and luminescence was excited by the 436 mμ line from a mercury lamp using a monochromator and filter. Photoconduction rises more slowly than luminescence and all the rise curves have a point of inflexion in the early stages. The dynamics of the infrared quenching of photoconductivity and luminescence is studied. The quenching curves show the variation of quenching with energy of the infrared radiation, i.e. from 1.15 eV to 1.94 eV, maximum quenching

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

occurring with the highest energy radiation. The results from these experiments partially confirm the conclusions suggested by the theory proposed by F. Matossi. In these processes the a type trapping centres play a significant role and it is concluded that in the ZnS·CdS-Cu phosphors the recombination cross-section is smaller than the capture cross-section of the range of electron trap. It is also possible that a considerable filling of the electron trapping centres responsible for the prolonged storage of energy may occur at room temperature. There are 10 figures.

SUBMITTED: December 15, 1961

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

44379

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24.2600

S/613/62/000/018/009/013
E039/E120

AUTHORS: Nymm, U.Kh., and Rammo, I.Kh.

TITLE: The spectra of infrared quenching of photoconductivity and luminescence of ZnS·CdS-Cu phosphors

SOURCE: Akademiya nauk Estonskoy SSR. Institut fiziki i astronomii. Trudy. no.18. 1962. Issledovaniya po lyuminestsentsii. 107-122

TEXT: The effect of infrared quenching on the photoconductivity and luminescence of the mixed crystal phosphors ZnS·CdS-Cu is studied with the object of elucidating the effect of the content of basic material on the corresponding energy levels between which electron transitions occur. Phosphors are examined with the following CdS content: 45, 35, 25, 18, 8 and 0%. Photoconductivity is measured by the photodielectric effect. The spectra of infrared quenching of photoconductivity and luminescence are similar and are practically unaffected by the concentration of CdS in the mixed phosphor. The displacement of the quenching spectra with increasing concentration of CdS is $\sim 0.1 \times 10^{-2}$ eV/mole % CdS. Electron processes giving rise to infrared quenching

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

The spectra of infrared quenching ... S/613/62/000/018/009/013
E039/E120

of photoconductivity and luminescence possess certain common stages which originate in centres whose nearest surroundings are largely unaltered by the substitution of one of the cations. Results from an earlier paper on infrared photo-response are considered to be due to transition of electrons from traps to the conduction band. It is shown that for phosphors of this type electron and hole traps may possess nearly equal energy depths but it is possible to distinguish the electronic processes related to corresponding centres in mixed crystals. There are 4 figures.

SUBMITTED: December 15, 1961

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ACCESSION NR: AT3013095 S/2613/62/000/021/0284/0287

AUTHORS: Ny*mm, U. Kh.; Rammo, I. Kh

TITLE: On the use of modulated light by measurement of photoelectric effect

SOURCE: AN EstSSR. Institut fiziki i astronomii. Trudy*, no. 21, 1962, 284-287

TOPIC TAGS: modulated light, photoelectric effect, crystal, phosphor, frequency drift

ABSTRACT: A brief study has been presented on the possibility of utilizing a modulated light beam by measuring the photoelectric effect on ZnS·Cds·Cu crystal phosphor. The modulated light is obtained by means of a rotary disc. The apparatus has been described by the same authors in a previous paper (Trudy* IFA AN ESSR, No. 15, 203, 1961). Measurements on the crystal containing 45% CdS are given as long wave-length photo-response growth rate curves, characterizing the kinetics of local level population under short-wave light action (405 mμ), and a photodielectric effect current versus time curve. "The authors are grateful to G. Soo for helping in the experiments." Orig. art. has: 1 figure.

Card 1/2 Inst. Physics & Astronomy AN Est. SSR

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 1740-66 EWT(l)/EPA(s)-2/EWT(m)/EWP(t)/EWP(b) IJP(c) JD/GG
ACCESSION NR: AT5013696 UR/2613/64/000/030/0096/0098

AUTHOR: Rammo, I. Kh. 44,55 21,44,55

TITLE: Photodielectric effect in ZnS.CdS-Cu phosphors

SOURCE: AN EstSSR. Institut fiziki i astronomii. Trudy, no. 30, 1964. Issledovaniya po lyuminestsentsii (Research on luminescence), 96-98

TOPIC TAGS: zinc sulfide optic material, photodielectric effect, photoconductivity, luminor, frequency dependence, luminescence yield

ABSTRACT: This is a continuation of earlier work by the author (with U. Kh. Nymm, Trudy IFA AN ESSR v. 15, 184, 1961) and is aimed at explaining the mechanism of the photodielectric effect. For this purpose, the author measured the dependence of the increase in capacitance ΔC and the tangent of the loss angle tanδ on the intensity of the exciting light (546 nm). This dependence shows a clearly pronounced maximum at different frequencies of the applied voltage (in the interval 0.75 -- 12 Mcs), for all six investigated phosphors (ZnS.CdS-Cu (10^{-4} g/g) and ZnS. CdS-Cu(2 x 10^{-4} g/g) containing 60,

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80, and 100 molar per cent CdS. From an analysis of the data it is concluded that the cause of the photodielectric effect is photoconductivity which is not affected by extraneous phenomena, and that the measured parameters of the phosphor indeed depend on the frequency and conductivity of the crystal-phosphor granules only in terms of variable of the form ω/σ. The dependence of the photoconductivity σ on the intensity of the exciting light I can be represented in the form $\sigma = aI^n$, and it is shown that n can be determined from the dependence of the capacitor parameters on ω and σ. In the regions where the capacitance change is small ($\Delta C < 3$ pF), n is approximately equal to 1, so that the lux-ampere characteristic of the photoconductivity is linear. 'I thank U. Kh. Nymm for interest and E. Asari for help with the experiments. The phosphors were supplied by K. Piyr.' Orig. art. has: 1 figure.

44,55 44,55 44,55

ASSOCIATION: None

SUBMITTED: 280ct64 ENCL: 00 SUB CODE: OP

NR REF SOV: 002 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 28348-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6013092 SOURCE CODE: UR/0048/66/030/004/0722/0724

41
40
8

AUTHOR: Nymm, U. Kh.; Rammo, I.Kh.

ORG: none

TITLE: Nature of the luminescence and optical quenching in copper-activated zinc sulfide phosphors /Report, Fourteenth Conference on Luminescence held in Riga 16-23 September 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 4, 1966, 722-724

TOPIC TAGS: luminescence center, luminescence, luminescence quenching, zinc sulfide, luminescence spectrum

ABSTRACT: Copper-activated ZnS phosphors emit blue and green luminescence; some authors attribute the two copper luminescence bands to different centers, while other authors favor the hypothesis of centers of one type. In the present paper there are adduced and discussed some preliminary data obtained in investigating two series of mixed phosphors: ZnS-CdS:Cu (10^{-4} g/g) and ZnS-CdS:Cu (2×10^{-4} g/g) with 40, 60, 80 and 100 mole percent CdS. The phosphors were prepared by the technique described by H.Ortmann and H.Treptov (Z.Naturforsch., 16a, 910 (1961) and kindly made available to the authors by K.Piyr. In the range of low copper concentrations the longer wavelength (green) luminescence bands predominate, while in the range of higher concentrations the shorter wavelength (blue) bands dominate. The luminescence spectra are presented in a figure. It would appear that with increase of the copper concentration

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ACC NR: AP6013092

the "green" centers convert to "blue" centers, an effect that can be reconciled with either the single center model or the model of different centers. It was thought that light might be thrown on the nature of the centers by electron paramagnetic resonance experiments, but measurements carried out at the request of the authors by Pung and Khaldre failed to show a significant EPR signal and thus precluded clarification of the nature of the centers. The authors attempted to detect and identify the unfilled ground states of the luminescence centers by measurements of the photoconductivity in the region of the spectrum where infrared quenching is observed. The parallel spectral variation of the quenching of photoconductivity and of luminescence indicates that the first stage in the process leading to quenching in both types of phosphors is the same. This can be explained by release of holes by the IR light from the green copper centers (there is a certain residual concentration of green centers even in the blue luminescing specimens). It would appear that either the blue centers represent an ionized state of the green centers (if one accepts the single center model) or that the blue centers are incapable of absorbing infrared in the excited state. It is concluded that the question of the model or models for the blue and green centers in copper-activated ZnS phosphors is a very complicated one and that on the basis of the data now available it is impossible to decide between the two hypotheses. The authors are grateful to A.Saar for participation in the experiments. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 013

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

Country : USSR
Category : Plant Diseases. Diseases of Cultivated Plants.

Abs Jour. : Ref. Zhur.-Biologiya No. 11, 1958. No.49260

Author : Darozhkin, N.A.; Ramneva, Z.I.
Institute : Not given
Title : Aerial Spraying in Potato Phytophthora Disease Control

Orig. Pub.: Sel'sk. gaspadarka Belarusi, 1957, No. 5, 17

Abstract : Spraying with a 0.1 - 0.2% solution of $CuSO_4$ 8-10 days after the appearance of sprouts and then once more in 10 days delays the appearance of the phytophthora infection by 5-13 days, cutting the tuber disease rate by 2/3 to 3/4, and increases the yield by 40 - 63 centners per ha. Aerial spraying is recommended: 1) on sprouts with a 0.1% solution of $CuSO_4$ at the rate of 100-200

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

Country : USSR
Category : Plant Diseases. Diseases of Cultivated Plants. 0

Abs. Jour.: Ref. Zhur.-Biologiya No. 11, 1958. No. 49260

Author :
Institute :
Title :

Orig. Pub.:

Abstract : liters per hectare; with a 0.2% solution at the rate of 50-100 liters/ha.; 2) during budding and at the beginning of blossoming, with a 3% bordeaux mixture at the rate of 200 l/ha; 1-2% bordeaux mixture at the rate of 300 liters/ha.--V.V. Vergovskiy

Card: 2/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMNICEANU, C.

RUMANIA/General Biology. Individual Development B-4

Abs Jour : Ref Zhur - Biol., No 22, 1958, No 98912

Author : Ramniceanu C., Hiclea C., Dragan M., Joju M.
Inst : Rumanian Academy, Baza Timisoara
Title : Effect of Morphine, Adrenalin and Sodium Luminal on Carbohydrate Metabolism During the Embryonic Period of Ontogenesis

Orig Pub : Ser. stiinte med., 1956, 3, No 3-4, 63-72

Abstract : In an experiment with chicken embryos in 4 to 5 day incubation periods after the administration into the chorioallantois of morphin (I), adrenalin (II) and Na Luminal III the content of glycerin was determined. Administration of I showed in the first half of embryonic development a weak and in the second half a strong anabolising effect. Administration of II and III during earlier periods of ontogenesis produced catabolising effect (provoking complete glycogenolysis)

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMODANOV, B. I.

Cand Tech Sci - (diss) "Study of the stability of supports in horizontal mine workings under conditions of the exploitation of steeply sloping walls of the Irminsko-Kadiyevskaya Syncline." Moscow, 1961. 17 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Mining Inst imeni I. V. Stalin); 200 copies; price not given; (KL, 6-61 sup, 224)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMODANOV, B.I.; TRET'YAKOV, I.G.

Use of deep boreholes in upraising in a potassium mine.
Khim.prom. no.9:613-614 Ag '62. (MIRA 15:9)
(Potassium)
(Mining engineering)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMZDANOV, B.I.; ARNAUTOV, B.A.; MAGUR, M.Ye.

Improvement of the methods of mining at the Stebnik extracting center. Khim.prom. no.7:549-550 Jl '63. (MIRA 16:11)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMODANOV, B.I., inzh.

Maintenance of haulage drifts in mining steeply pitching seams. Izv.vys.ucheb.zav.; gor.zhur. no.4:3-9 '58. (MIRA 11:11)

1. Leningradskiy gornyy institut.
(Mining engineering)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

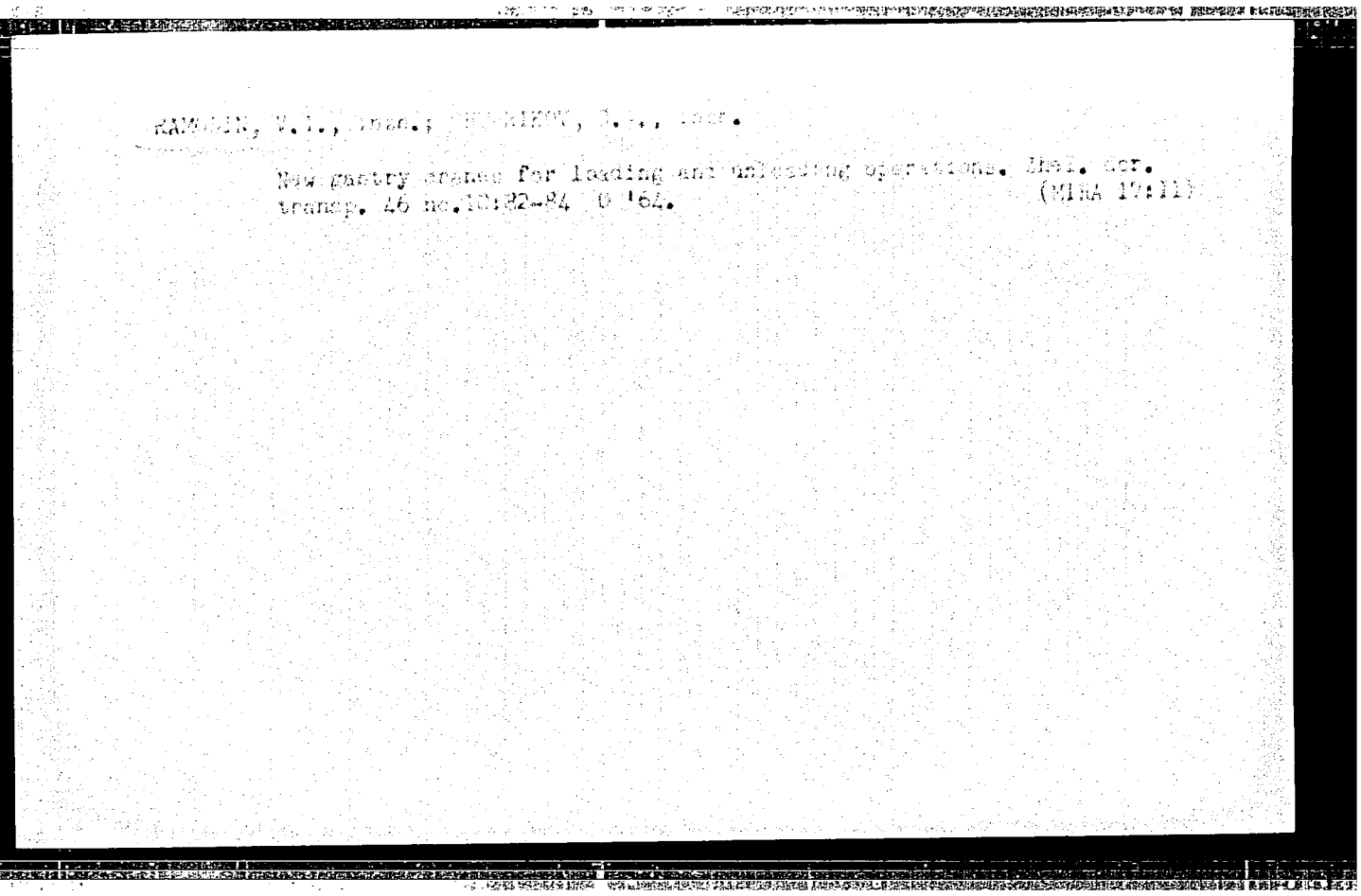
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMODANOV, B.I., gornyy inzh.

Timbering haulage drifts in steeply pitching seams. Ugol' 33 no.12: 7-10 D '58. (MIRA 11:12)
(Mine timbering)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



RAMAZIN, V.I., inzh.; [illegible], S.A., inzh.

New poultry houses for loading and unloading operations. Mekh. sel'. proizv. 16 no.10:82-84 O '64. (MIRA 17:11)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

LEPSKIY, A.V.; BORODULINA, Ye.V.; UGODIN, Ye.G.; PLYUKHIN, D.S.; MOROZOV, E.N.; DRUGAL', S.A.; KHARITONOV, Ye.V.; RAMODIN, V.N.; CHUPRIKOV, S.A.

[Over-all mechanization and automation of the unloading of bulk freight.] Kompleksnaia mekhanizatsiia i avtomatizatsiia vygruzki sypuchikh gruzov. Moskva, Transport, 1964. 182p. (Trudy Vsesoiuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta, no.285). (MIRA 17:12)

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MATIASOV, S.F., kand. tekhn. nauk; NOSKOV, Yu.A., inzh.; Prinimali uchastiye: RAMODIN, V.N., inzh.; SUSAK, P.A., kand. tekhn. nauk; CHIKAREV, S.S., inzh.; KURITSYN, V.I.; YAKUSHOV, M.A.; VASILOV, G.S., starshiy mekhanik; OVCHINNIKOV, Yu.P., starshiy mekhanik; DEVICHINSKIY, Yu.V., starshiy laborant; GOL'DENTUL, A.B., inzh.; VOROB'YEVA, K.M., starshiy tekhnik

[Transportation of goods subject to freezing; problem in the theory of freezing and the mechanization of loosening operations.] Perevozki zamerzaiushchikslia gruzov; voprosy teorii zamerzaniia i mekhanizatsii rykhleniia. Moskva, Transport, 1964, 132 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.273). (MIRA 17:9)

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RAMODIN, V.N.; DRUGAL', S.A.; ZAYTSEV, Yu.V., inzh., retsenzent;
PREDE, V.Yu., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Mechanization of auxiliary operations] Mekhanizatsiia vspomogatel'nykh operatsii. Moskva, "Transport," 1964. 84 p. (MIRA 17:2)

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RAMODIN, V.N., inzh.; CHUPRIKOV, S.A., inzh.; KAPITANOV, V.D., inzh.

Results of the tests of a 10-ton capacity, two-cantilever gantry crane. Vest. TSNII MPS 23 no.1:48-53 '64. (MIRA 17:4)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

GOLOVKIN, Mikhail Pavlovich; NAUMOV, A.F., retsenzent; NAUMKIN, A.N., inzh., retsenzent; RAMODIN, V.N., inzh., retsenzent; SOLDATENKOV, A.G., retsenzent; YEFIMOV, G.P., kand.tekhn.nauk, red.; MEDVEDEVA, M.A., tekhn. red.

[Design and operation of motor operated loaders] Ustroistvo i ekpluatatsiia avtopogruzchikov. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 77 p. (MIRA 14:12)

1. Abkhazian A.S.S.R. Statisticheskoye upravleniye.
(Abkhazia--Statistics)

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LEPSKIY, A.V.; PLYUKHIN, D.S.; RAMODIN, V.N.; PETROVA, V.L.,red.;
MEDVEDEVA, M.A., tekhn. red.

[Inertia system for the unloading of bulk and lump freight from box cars developed by the Central Scientific Research Institute of the Ministry of Railroad Transportation] Inertsionnaia ustanovka TsNII MPS dlia vygruzki sypuchikh i kuskovykh gruzov iz krytykh vagonov. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 26 p. (MIRA 14:12)
(Loading and unloading)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMODIN, V.N., inzh.

Mobile pneumatic apparatus for closing the drop bottom of gondola cars. Zhel.dor.transp. 40 no.4:78 Ap '58.
(MIRA 13:4)

(Railroads--Freight cars)

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RAMODIN, V.N., inzh; MOROZOV, E.N., inzh.

Methods and examples of establishing advanced time norms for mechanized loading and unloading of grain from cars. Trudy TSNII MPS no.151:159-182 '58. (MIRA 11:12)
(Loading and unloading) (Grain--Transportation)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMODIN, V.M., inzh.

Methods and examples of establishing advanced time norms for mechanized loading and unloading of sugar beets from cars. Trudy TSNII MPS no.151:183-202 '58. (MIRA 11:12)
(Loading and unloading) (Sugar beets--Transportation)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

AUTHOR: Ramodin, V.N., Engineer

SOV/118-58-2-15/19

TITLE: A Mobile Pneumatic Hatch Lifter (Peredvizhnoy pnevmaticheskiy lyukopod"yemnik)

PERIODICAL: Mekhanizatsiya trudoyëmkikh i tyazhëlykh rabot, 1958, Nr 2 p 41 (USSR)

ABSTRACT: A mobile pneumatic lifter for closing the hatches of gondola cars is in use at the Chelyabinsk GRES. It moves on a rail fixed on the wall of the unloading building at a height of 6 m. A main line of compressed air is installed along the building; it has many branch-pipes to which the hose of the lifter can be successively attached. The lifter is suspended to the rail along which it moves. The lifting mechanism is operated by a small crane and the closing of each hatch takes about 25-30 seconds. There are 2 diagrams.

1. Cargo vehicles--Equipment 2. Machines--Operation
3. Hoists--Performance

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RAMODIN, V.N.

An unloader of loose materials. Mekh.trud.rab. 11 no.7:19-20 J1 '57. (MIRA 10:11)
(Loading and unloading)

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RAMODIN, V.N.

Vibrators for unloading freight cars. Biul.tekh ekon inform. (MIRA 15:2)
no.1:71-75 '62.

(Vibrators)
(Loading and unloading)

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PLYUKHIN, D.S., kand.tekhn.nauk; RAMODIN, V.N., inzh.

Results of the testing of inertia unloading machines. Vest. TSNII MPS 20 no.5:33-37 '61. (MIRA 14:8)
(Loading and unloading) (Railroads--Freight cars)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMODIN, V.N., inzh.; KUTSKEVICH, K.I.

Cooperation of industrial enterprises in the organization of loading and unloading operations. Trudy TSNII MPS no. 196:45-59 '60. (MIRA 14:5)

(Railroads, Industrial) (Loading and unloading)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMODIN, V.N., inzh.

Movable trap door lifting device. Mekh. trud. rab. 12 no.3:41 F '58. (MIRA 11:3)
(Railroads--Freight cars)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

HAMIDIN, V.N., inzh.

New loading and unloading machinery. Zhel.dor.transp. 41 no.7:91-93 Jl '59. (MIRA 12:12)
(Loading and unloading) (Industrial power trucks)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAMOKHITO, Khalim, general-mayor

Fifteenth anniversary of the People's Republic of Albania.
Voen. vest. 39 no.11:16-20 N '59. (MIRA 13:3)
(Albania--Social conditions)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

USSR / General Problems of Pathology. Tumors. General U
Problems.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102508.

Author : Kakhetelidze, M. G.; Ramonova-Tskhovrebova, O. D.; Rozanova, N. S.

Inst : Not given.

Title : On the Influence of Repeated Transfusion of Blood from Patients With Acute Leucosis on Blood Production in Rabbits.

Orig Pub: Patol. fiziologiya i eksperim. terapiya, 1957, I, No 3, 48-51.

Abstract: Repeated introduction to 3 rabbits of plasma of patients with acute leucosis (PAL; 17, 37 and 52 ml) induced in them, 44-45 days after the 1st introduction, a sharp decrease of Hb, number of erythrocytes and leucocytes; disappearance of mature

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USSR / General Problems of Pathology. Tumors. General U
Problems.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102508.

Abstract: pseudoeosinophiles; appearance of young immature forms of pseudoeosinophiles; increase of the absolute number of monocytoid cells and decrease of the number of lymphocytes; and anisocytosis, polychromasis and appearance of erythronormoblasts (10-15 per 200 leucocytes). The animals perished in the course of 2 months with manifestations of anemia and leucopenia. In the bone marrow, at the beginning of experiment, its rejuvenation was observed, and several days before an animal's death only degenerative cells were discovered. In histologic examination of the liver, spleen, kidneys, lungs, etc., foci of blood formation were discovered. In repeated introduction of plasma of healthy indi-

Card 2/3

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

USSR / General Problems of Pathology. Tumors. General U
Problems.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102508.

Abstract: viduals to 2 rabbits in the course of 3 months there were no observations of expressed changes. Introduction of erythrocytes of PAL did not induce in 3 rabbits in the course of 10 mo. any essential changes of blood production. Apparently, in the plasma of PAL there are toxic substances which induce toxicosis and inhibition of blood formation of bone marrow. -- R. P. Zolotnitskaya.

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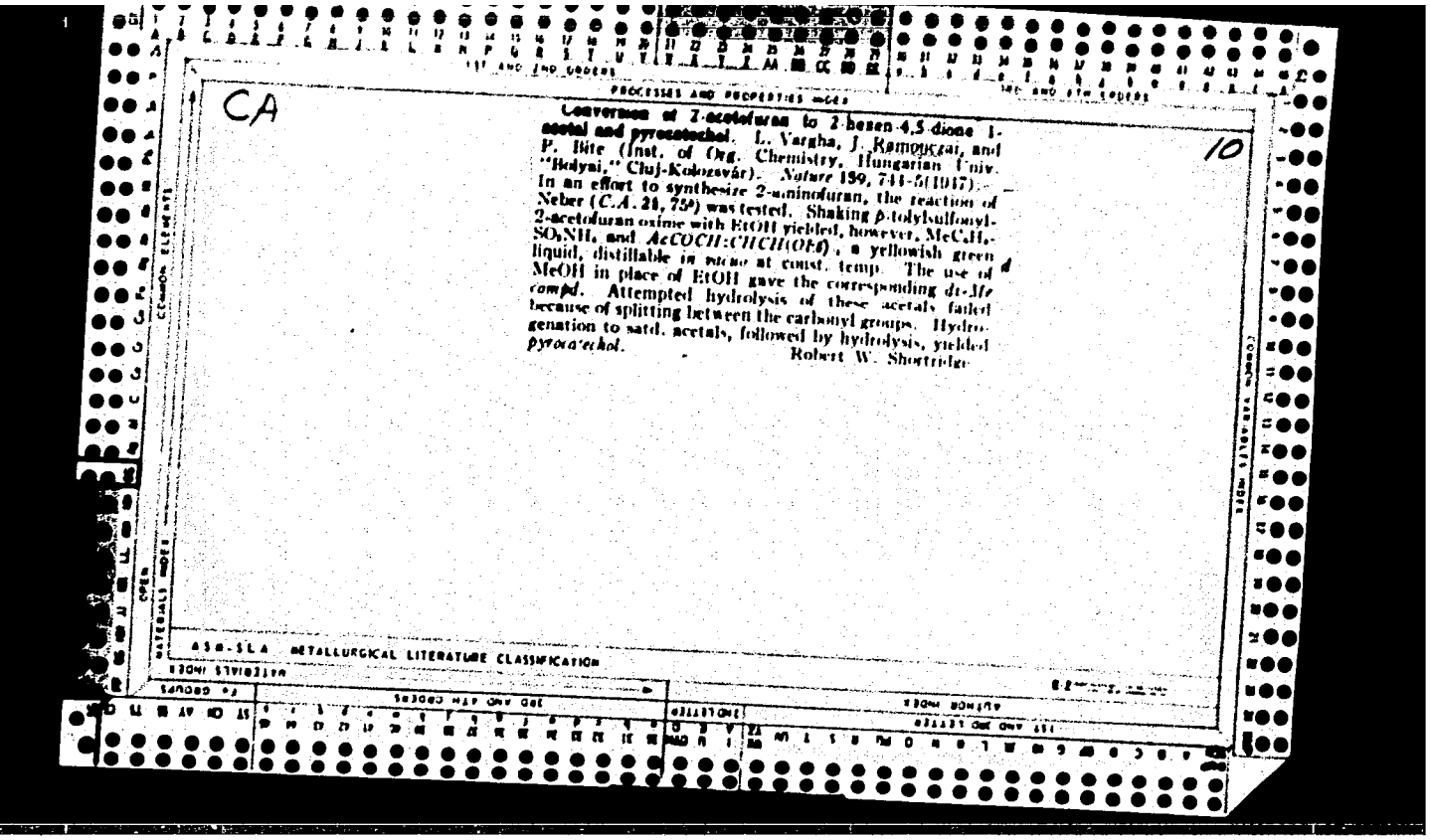
RAMONAYTE, S.

RAMONAYTE, S.: "The determination of aluminum, iron, and tietnium when they are present simultaneously." Acad Sci Lithuanian SSR. Inst of Chemistry and Chemical Technology. Vil'nyus, 1956. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Knizhaya Letopis', No 23, 1956

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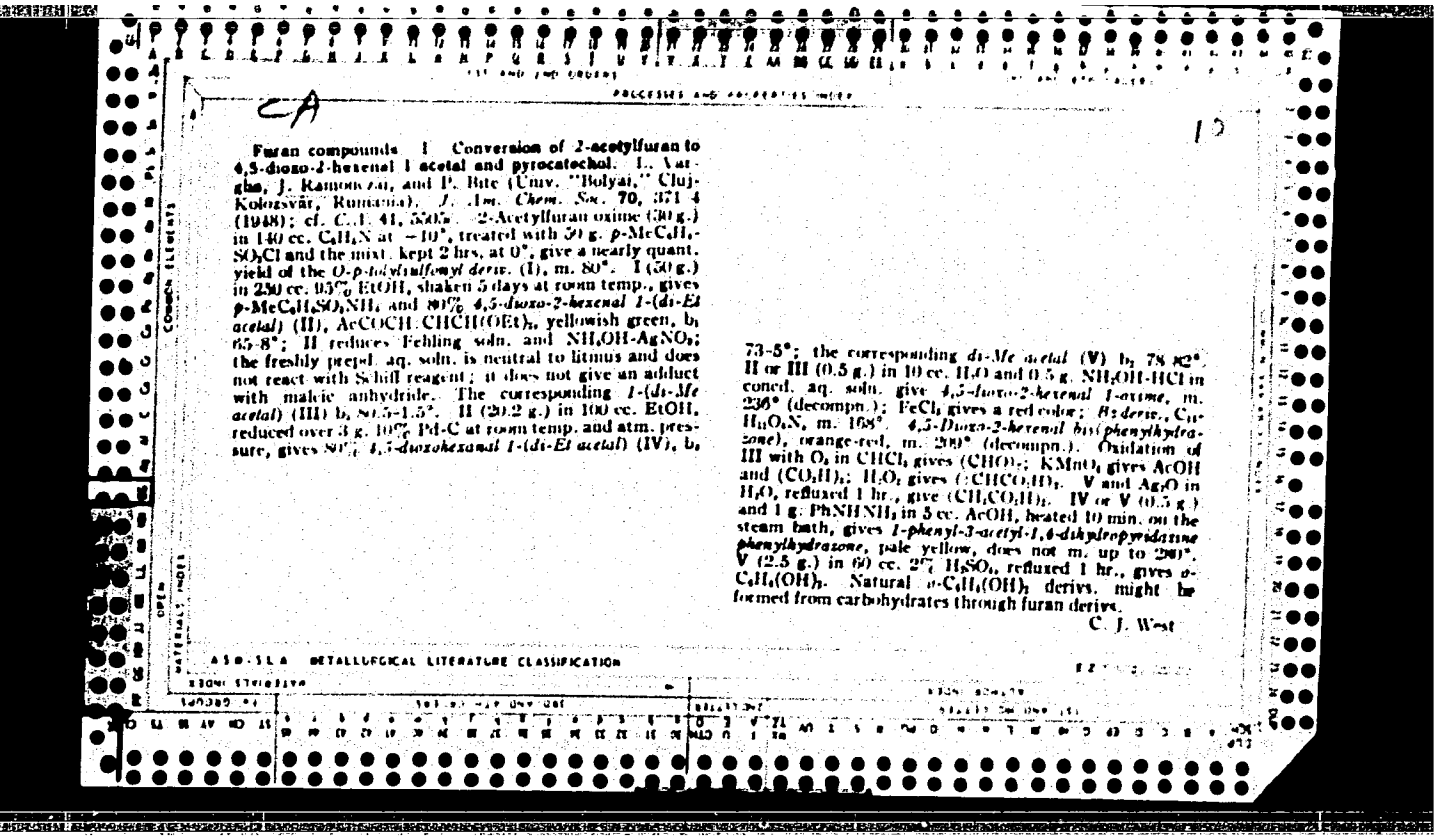
10

Conversion of 2-acetofuran to 2-hexen-4,5-dione 1-acetal and pyrocatechol. L. Vargha, J. Romoczai, and P. Bite (*Inst. of Org. Chemistry, Hungarian Univ. "Bolyai," Cluj-Kolozsvár*). *Nature* 159, 744-5(1947).—In an effort to synthesize 2-aminofuran, the reaction of Neber (*C.A.* **24**, 758) was tested. Shaking *p*-tolylsulfonyl-2-acetofuran oxime with EtOH yielded, however, $MeC_6H_4SO_2NH_2$ and $AcCOCH{:}CHCH(OEt)_2$, a yellowish green liquid, distillable *in vacuo* at const. temp. The use of MeOH in place of EtOH gave the corresponding di-Me *compd.* Attempted hydrolysis of these acetals failed because of splitting between the carbonyl groups. Hydrogenation to satd. acetals, followed by hydrolysis, yielded *pyrocatechol.*

Robert W. Shortridge

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CA

Furan compounds. I. Conversion of 2-acetylfuran to 4,5-dioxo-2-hexenal 1 acetal and pyrocatechol. L. Vargha, J. Ramonczai, and P. Bite (Univ. "Bolyai," Cluj-Kolozsvár, Rumania). *J. Am. Chem. Soc.* **70**, 371-4 (1948); cf. *C.A.* **41**, 5505*i*. 2-Acetylfuran oxime (30 g.) in 140 cc. C_5H_5N at −10°, treated with 50 g. *p*-$MeC_6H_4SO_2Cl$ and the mixt. kept 2 hrs. at 0°, give a nearly quant. yield of the *O-p-tolylsulfonyl deriv.* (I), m. 80°. I (50 g.) in 250 cc. 95% EtOH, shaken 5 days at room temp., gives *p*-$MeC_6H_4SO_2NH_2$ and 80% *4,5-dioxo-2-hexenal 1-(di-Et acetal)* (II), $AcCOCH:CHCH(OEt)_2$, yellowish green, b_1 65-8°; II reduces Fehling soln. and NH_4OH-$AgNO_3$; the freshly prepd. aq. soln. is neutral to litmus and does not react with Schiff reagent; it does not give an adduct with maleic anhydride. The corresponding *1-(di-Me acetal)* (III) b_1 80.5-1.5°. II (20.2 g.) in 100 cc. EtOH, reduced over 3 g. 10% Pd-C at room temp. and atm. pressure, gives 80% *4,5-dioxohexanal 1-(di-Et acetal)* (IV), b_1 73-5°; the corresponding *di-Me acetal* (V) b_1 78-82°. II or III (0.5 g.) in 10 cc. H_2O and 0.5 g. NH_2OH-HCl in concd. aq. soln. give *4,5-dioxo-2-hexenal 1-oxime*, m. 236° (decompn.); $FeCl_3$ gives a red color; *Bis deriv.*, $C_{12}H_{18}O_4N_4$, m. 168°. *4,5-Dioxo-2-hexenal bis(phenylhydrazone)*, orange-red, m. 280° (decompn.). Oxidation of III with O_3 in $CHCl_3$ gives $(CHO)_2$; $KMnO_4$ gives AcOH and $(CO_2H)_2$; H_2O_2 gives $(CHCO_2H)_2$. V and Ag_2O in H_2O, refluxed 1 hr., give $(CH_2CO_2H)_2$. IV or V (0.5 g.) and 1 g. $PhNHNH_2$ in 5 cc. AcOH, heated 10 min. on the steam bath, gives *1-phenyl-3-acetyl-1,6-dihydropyridazine phenylhydrazone*, pale yellow, does not m. up to 280°. V (2.5 g.) in 60 cc. 2% H_2SO_4, refluxed 1 hr., gives *o*-$C_6H_4(OH)_2$. Natural *o*-$C_6H_4(OH)_2$ derivs. might be formed from carbohydrates through furan derivs.

C. J. West

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

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Ramonczai, J.

Furan compounds. II. Conversion of 2-acetobenzofuran to 2-methyl-3-hydroxychromone. L. Vargha, J. Ramonczai, and J. Bátbory ("Babyai" of Rumania, Cluj). *J. Am. Chem. Soc.* 71, 2852-6(1949); cf. *C.A.* 42, 2958h.—The *p-toluenesulfonate* (I) of 2-acetylbenzofuran oxime (m. 100-2°) (50 g.) in 250 cc. MeOH, kept 7 days at 35°, gives 35% *2-methyl-3-hydroxychromone* (II), m. 184-5°, gives a deep blue color with aq.-alc. $FeCl_3$; *Na salt*, yellow. II does not react with NH_2OH, $PhNHNH_2$, and $H_2NNHCONH_2$ and does not give an oxonium salt with HCl or $ZnCl_2$; it is unchanged after refluxing 2 hrs. with 2 *N* HCl. The ethereal mother liquor from II yields 2-coumaranone, m. 52°. The ethereal reaction product from 50 g. I, washed with H_2O and 50 cc. 2 *N* NaOH, yields 20% *2-methylchromanone 3-di-Me acetal*, $C_6H_4.CO.C(OMe)_2.CHMe.O$ (III), pale yellow, b_4 120-2°, unchanged on boiling several hrs. with 25% H_2SO_4 or on heating 8 hrs. with BzCl in quinoline; it is stable toward 10% NaOH or on refluxing 4 hrs. in H_2O_2-AcOH; the NaOH ext. yields 20% *(o-hydroxyphenyl)acetic acid* (IV), m. 147-9°. The *3-di-Et acetal* (prepd. from I and EtOH), b_2 118-22°. II yields an *acetate* (V), m. 111-12°, a *benzoate*, m. 165°, a *p-toluenesulfonate*, m. 152°, and a *Me ether*, m. 106°. II, refluxed 4 hrs. with 10 cc. 15% H_2O_2 and 10 cc. AcOH, gives IV, which results also on refluxing 3.4 g. II 2 hrs. in 100 cc. 2 *N* H_2SO_4. $BrCH_2COPh$ (20 g.) and 40 g. $AlCl_3$, heated 7 hrs. at 135-40° and the product extd. with boiling petr. ether (b. 80-90°), give 10 g. *o-hydroxy-α-bromoacetophenone* (VI), m. 70-1°; the insol. portion (6 g.) is the *p-isomer*, m. 146°. VI (1 g.), 2 g. Ac_2O, and 1 g. AcONa, heated 90 min. at 180°, give 0.6 g. V. III (2.2 g.), 1 g. $NH_2OH.HCl$, and 1 g. AcONa in 25 cc. EtOH, refluxed 4 hrs., give *2-methyl-4-chromanone oxime 3-di-Me acetal*, $C_6H_4.C(:NOH).C(OMe)_2.CHMe.O$

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